Opasraportti

UniOGS, Graduate School (2012 - 2013)

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Tutkintorakenteet

Doctor of Technology, Industrial Engineering and Management

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.
Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (180 op)

550001J: Industrial Engineering and Management, thesis, 0 op

Doctor of Science (Economics and Business Administration)

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in management or international business may be required to take up to 0-28 credits of bridging studies.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (42 - 46 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

**Doctoral Thesis (vähintään 180 op)**

722590J: MAN&ORG, Doctoral Dissertation, 0 op

**Doctor of Medical Science, Anaesthesiology**

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op
Doctor of Technology, Process Engineering

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

470001J: Process Engineering, thesis, 0 op

Doctor of Technology, Photonics

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (32 - 36 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
*Compulsory*  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy (920005J).

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (vähintään 180 op)**

520001J: Electrical Engineering, thesis, 0 op

**Doctor of Technology, Electronics Design**

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (4 - 8 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.
General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

520001J: Electrical Engineering, thesis, 0 op

Doctor of Technology, Electronics Materials and Components

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

520001J: Electrical Engineering, thesis, 0 op

Doctor of Technology, Technical Mathematics

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)
520001J: Electrical Engineering, thesis, 0 op

Doctor of Technology, Automotive & Machine Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op

Teaching Tasks (enintään 4 op)
Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op
920006J: Teaching Tasks, 4 op

**Doctoral Thesis (vähintään 180 op)**

460001J: Mechanical Engineering, thesis, 0 op

**Doctor of Technology, Machine Design**

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (4 - 8 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (32 - 36 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (vähintään 180 op)**

460001J: Mechanical Engineering, thesis, 0 op
Doctor of Technology, Materials Engineering

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
   Compulsory
      920004J-01: Research Plan and Seminar, Research Plan, 3 op
      920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Technology, Mechatronics

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012
General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op  
Compulsory  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Technology, Machine Diagnostic

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op
Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Technology, Structural Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies
Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy (920005J).

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Technology, Construction Technology

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Teaching Tasks (enintään 4 op)

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Compulsory
Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (vähintään 180 op)**

460001J: Mechanical Engineering, thesis, 0 op

**Doctor of Technology, Technical Mechanics**

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (4 - 8 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (32 - 36 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (vähintään 180 op)**
Doctor of Technology, Production Technology

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Technology, Computer Science and Engineering

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13
General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

  Compulsory

  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

521001J: Information Engineering, thesis, 0 op

Doctor of Technology, Communications Engineering

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012
Field Specific Studies (28 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 19-27 credits.

521318S Modern Topics in Telecommunications and Radio Engineering at least 5 credits

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

522001J: Telecommunication Engineering, thesis, 0 op

Doctor of Technology, Environmental Engineering

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.
Another Field Specific Studies 28-32 credits.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (vähintään 180 op)**

480001J: Environmental Engineering, thesis, 0 op

**Doctor of Technology, Architecture**

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (4 - 8 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (32 - 36 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)
450001J: Architecture, thesis, 0 op

Doctor of Science, International Business

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in management or international business may be required to take up to 0-28 credits of bridging studies.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (42 - 46 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op

Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)
722690J: IB, Doctoral Dissertation, 0 op
Doctor of Science, Economics

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 46 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (vähintään 180 op)
722390J: ECON, Doctoral Dissertation, 0 op

Doctor of Science, Accounting

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op
Field Specific Studies (vähintään 46 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (vähintään 180 op)
722190J: ACC, Doctoral Dissertation, 0 op

Doctor of Science, Marketing

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (41 - 46 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 5 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in logistics may be required to take up to 0-33 credits of bridging studies.

Field Specific Studies (41 - 46 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Teaching Tasks (enintään 5 op)
When the student has passed at least 2 credits of university pedagogical studies.

Doctoral Thesis (vähintään 180 op)

Doctor of Science, Logistics
General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

The student have to get a course 721339S Ekonometria 6 credits, if it is not included in his/her master's degree.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 46 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (vähintään 180 op)
722990J: FIN, Doctoral dissertation, 0 op

Doctor of Philosophy (Education)

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in education may be required to take up to 10 credits of bridging studies. Students without a background in education carry out a degree of "Doctor of Philosophy". Students, who have background in education carry out a "Doctor of Philosophy (Education)" degree.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
Field Specific Studies (20 - 26 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching tasks (enintään 6 op)
Teaching tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 160 op)

419105J: Doctoral thesis, 0 op

Doctor of Philosophy (Education), Educational Psychology

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in education may be required to take up to 10 credits of bridging studies. Students without a background in education carry out a degree of "Doctor of Philosophy". Students, who have background in education carry out a "Doctor of Philosophy (Education)" degree.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (20 - 26 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching tasks (enintään 6 op)

Teaching tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 160 op)

419105J: Doctoral thesis, 0 op

Doctor of Philosophy (Education), Music Education

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in education may be required to take up to 10 credits of bridging studies. Students without a background in education carry out a degree of "Doctor of Philosophy". Students, who have background in education carry out a "Doctor of Philosophy (Education)" degree.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (20 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching tasks (enintään 6 op)

Teaching tasks

920006J: Teaching Tasks, 4 op
Doctoral Thesis (vähintään 160 op)

419105J: Doctoral thesis, 0 op

Doctor of Philosophy, Biochemistry

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in biochemistry may be required to take up to 40 credits of bridging studies. These studies will be selected based on the individual background of the student by the supervisor and student and should be the minimum required to give the student sufficient background in biochemistry. The plan for the bridging studies (where necessary) should be accepted by the departmental research planning committee.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (vähintään 180 op)

748615J: Ph.D. Thesis in Biochemistry, 0 - 180 op

Doctor of Philosophy, Animal Ecology

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920007J: Follow-up Group Reporting and Meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (vähintään 26 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

- 755614J: Introductory essay of Ph. D. research, 4 op
- 920004J: Research Plan and Seminar, 4 op

  **Compulsory**
  - 920004J-01: Research Plan and Seminar, Research Plan, 3 op
  - 920004J-02: Research Plan and Seminar, seminar, 1 op

**Doctoral Thesis (vähintään 180 op)**

- 755617J: Ph.D. thesis in animal ecology, 180 op

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**Doctor of Philosophy, Plant Ecology**

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920007J: Follow-up Group Reporting and Meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (vähintään 26 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

- 755614J: Introductory essay of Ph. D. research, 4 op
- 920004J: Research Plan and Seminar, 4 op

  **Compulsory**
  - 920004J-01: Research Plan and Seminar, Research Plan, 3 op
**Doctoral Thesis (vähintään 180 op)**

756635J: Ph.D. thesis in plant ecology, 180 op

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**Doctor of Philosophy, Animal Physiology**

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

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**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

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**Field Specific Studies (vähintään 26 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

755614J: Introductory essay of Ph. D. research, 4 op
920004J: Research Plan and Seminar, 4 op

**Compulsory**

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

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**Doctoral Thesis (vähintään 180 op)**

755619J: Ph.D. thesis in animal physiology, 180 op

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**Doctor of Philosophy, Plant Physiology**

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

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**General- and Transferable Skills Studies (vähintään 4 op)**
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (vähintään 26 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

755614J: Introductory essay of Ph. D. research, 4 op  
920004J: Research Plan and Seminar, 4 op  

Compulsory  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Doctoral Thesis (vähintään 180 op)**

756637J: Ph.D. thesis in plant physiology, 180 op

**Doctor of Philosophy, Genetics**

Tutkintorakenteen tila: published  
Lukuvuosi: 2012-13  
Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (vähintään 26 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

755614J: Introductory essay of Ph. D. research, 4 op  
920004J: Research Plan and Seminar, 4 op  

Compulsory
Doctoral Thesis (vähintään 180 op)
757609J: Ph.D. thesis in genetics, 180 op

Doctor of Philosophy, Biophysics

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in physics may be required to take up to 20 credits of bridging studies.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (28 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op

**Compulsory**
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching tasks (enintään 8 op)
When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)
764602J: Ph.D. Thesis in Biophysics, 0 op

Doctor of Philosophy, Physics
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in physics may be required to take up to 20 credits of bridging studies.

920005J Basics of University Pedagogy for Doctoral Students -course is compulsory only, if student want to include 920006J Teaching tasks to his studies.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (28 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching tasks (enintään 8 op)

When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

766602J: Ph.D. Thesis in Physics, 0 op

Doctor of Philosophy, Geophysics
**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in physics may be required to take up to 20 credits of bridging studies.

920005J Basics of University Pedagogy for Doctoral Students -course is compulsory only, if student want to include 920006J Teaching tasks to his studies.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (28 - 36 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching tasks (enintään 8 op)**

When the student has passed at least 2 credits of university pedagogical studies

**Teaching tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (vähintään 180 op)**

762602J: Ph.D. Thesis in Geophysics, 0 op

**Doctor of Philosophy, Theoretical Physics**

Tutkintorakenteen tila: published  
Lukuvuosi: 2012-13  
Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in physics may be required to take up to 20 credits of bridging studies.

**General- and Transferable Skills Studies**
Field Specific Studies (28 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching tasks (enintään 8 op)

When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

763602J: Ph.D. Thesis in Theoretical Physics, 0 op

Doctor of Philosophy, Astronomy

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in physics may be required to take up to 20 credits of bridging studies.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (28 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
Teaching tasks (enintään 8 op)

When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

765602J: Ph.D. Thesis in Astronomy, 0 op

Doctor of Philosophy, Geology and Mineralogy

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 5 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in geology may be required to take up to 15 credits of bridging studies.

920005J Basics of University Pedagogy for Doctoral Students -course is compulsory only, if student want to include 920006J Teaching tasks to his studies.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (24 - 30 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Teaching tasks (enintään 6 op)
When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)
771603J: Ph. D. thesis, 0 op

Doctor of Philosophy, Geology of the Soil

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 5 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to
develop research ethics and to support career management.

Students without a background in geology may be required to take up to 15 credits of bridging studies.

920005J Basics of University Pedagogy for Doctoral Students -course is compulsory only, if student want to include 920006J Teaching tasks to his studies.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (24 - 30 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching tasks (enintään 6 op)
When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)
Doctor of Philosophy, Inorganic Chemistry

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
   920004J-01: Research Plan and Seminar, Research Plan, 3 op
   920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (enintään 180 op)
785610J: Ph.D. Thesis in Inorganic Chemistry, 0 op

Doctor of Philosophy, Physical Chemistry

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
Field Specific Studies (vähintään 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

  Compulsory

   920004J-01: Research Plan and Seminar, Research Plan, 3 op
   920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (vähintään 180 op)

786610J: Ph.D. Thesis in Physical Chemistry, 0 op

Doctor of Philosophy, Organic Chemistry

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

  Compulsory

   920004J-01: Research Plan and Seminar, Research Plan, 3 op
   920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (vähintään 180 op)

787610J: Ph.D. Thesis in Organic Chemistry, 0 op
Doctor of Philosophy, Structural Chemistry

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op

Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (vähintään 180 op)
788610J: Ph.D. Thesis in Structural Chemistry, 0 op

Doctor of Philosophy, Geography

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in geography may be required to take up to 10 credits of bridging studies of history, development and the current debate of geography.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
Field Specific Studies (16 - 21 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 5 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

793607J: Ph.D. thesis in geography, 0 op

Doctor of Philosophy, Mathematics

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

920005J Basics of University Pedagogy for Doctoral Students -course is compulsory only, if student want to include 920006J Teaching tasks to his studies.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (31 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
Teaching tasks (enintään 5 op)

When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

800695J: Doctoral Thesis in Mathematics, 0 op

Doctor of Philosophy, Applied Mathematics

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

920005J Basics of University Pedagogy for Doctoral Students -course is compulsory only, if student want to include 920006J Teaching tasks to his studies.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (31 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching tasks (enintään 5 op)

When the student has passed at least 2 credits of university pedagogical studies
Doctoral Thesis (vähintään 180 op)

801695J: Doctoral Thesis in Applied Mathematics, 0 op

Doctor of Philosophy, Statistics

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (31 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching tasks (enintään 5 op)

When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

802695J: Doctoral Thesis in Statistics, 0 op

Doctor of Philosophy, Information Processing Science
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (30 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field specific studies can include:
Conference presentations (1 credit) max 3 credits
Pro gradu – supervising (1 credit) max 3 credits
Research work abroad leading to co-publication (1 credit) max 3 credits (the publication cannot be included to the doctoral thesis)

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching tasks (enintään 6 op)

When the student has passed at least 2 credits of university pedagogical studies

Teaching tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

816669J: Doctoral Thesis in Information Processing Science, 0 op

Doctor of Philosophy, History of Ideas and Science

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (enintään 198 op)

702104J: Doctoral dissertation (History of Science and Ideas), 0 op

Doctor of Philosophy, Archaeology

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Doctoral Thesis (enintään 198 op)

Doctor of Philosophy, English Philology

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies

General- and Transferable Skills Studies

Doctoral Thesis (enintään 198 op)

Doctor of Philosophy, German Philology

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Field Specific Studies

Field Specific Studies

Doctoral Thesis (enintään 198 op)

Doctor of Philosophy, English Philology

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.
General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (enintään 198 op)

696004J: Doctoral Dissertation (German Language and Culture), 0 op

Doctor of Philosophy, History

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (enintään 198 op)
**Doctor of Philosophy, Information Studies**

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (vähintään 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Doctoral Thesis (enintään 198 op)**

850004J: Doctoral dissertation (Information Studies), 0 op

**Doctor of Philosophy, Literature**

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (enintään 198 op)

711104J: Doctoral dissertation (literature), 0 op

Doctor of Philosophy, Cultural Anthropology

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (enintään 198 op)

713104J: Doctoral dissertation (Cultural anthropology), 0 op
Doctor of Philosophy, Logopedics

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (enintään 198 op)

739004J: Doctoral Thesis (Logopedics), 0 op

Doctor of Philosophy, Nordic Philology

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op
Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (enintään 198 op)

687004J: Doctoral Dissertation (Swedish Language), 0 op

Doctor of Philosophy, Finnish Language

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (enintään 198 op)

680004J: Doctoral dissertation (Finnish Language), 0 op

Doctor of Philosophy, Scientific Communications
General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis (enintään 198 op)

694525J: Doctoral dissertation (Science Communication), 0 op

Doctor of Philosophy, Saami Language

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (vähintään 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
*Compulsory*  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Doctoral Thesis (enintään 198 op)**

682009J: Doctoral dissertation (Saami Language), 0 op

**Doctor of Philosophy, Saami Culture**

Tutkintorakenteen tila: published  
Lukuvuosi: 2012-13  
Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (vähintään 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
*Compulsory*  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Doctoral Thesis (enintään 198 op)**

682013J: Doctoral dissertation (Caries and Root Treatment), 0 op

**Doctor of Philosophy, Caries and Root Treatment**

Tutkintorakenteen tila: archived
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis

046002J: Dentistry, thesis, 0 op

Doctor of Philosophy, Dental development & orthodontics

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis

046002J: Dentistry, thesis, 0 op

Doctor of Philosophy, Dental prosthetics & clinical physiology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory
Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis
046002J: Dentistry, thesis, 0 op

Doctor of Philosophy, Pedodontics

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op

Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op
General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis
046002J: Dentistry, thesis, 0 op

Doctor of Philosophy, Oral & maxillofacial surgery
Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis

046002J: Dentistry, thesis, 0 op

Doctor of Philosophy, Periodontics & Geriatric Dentistry

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op
Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
   Compulsory
   920004J-01: Research Plan and Seminar, Research Plan, 3 op
   920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis
046002J: Dentistry, thesis, 0 op

Doctor of Dental Science, Diagnostics & Oral Mucosa Diseases
Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
   Compulsory
   920004J-01: Research Plan and Seminar, Research Plan, 3 op
   920004J-02: Research Plan and Seminar, seminar, 1 op
Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis
046002J: Dentistry, thesis, 0 op

Doctor of Dental Science, Dental prosthetics & clinical physiology

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis
046002J: Dentistry, thesis, 0 op
Doctor of Dental Science, Dental development & orthodontics

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis

046002J: Dentistry, thesis, 0 op

Doctor of Dental Science, Caries and Root Treatment

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis

046002J: Dentistry, thesis, 0 op

Doctor of Dental Science, Pedodontics

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis

046002J: Dentistry, thesis, 0 op

Doctor of Dental Science, Periodontics & Geriatric Dentistry

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis
046002J: Dentistry, thesis, 0 op

Doctor of Dental Science, Oral & maxillofacial surgery

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
   Compulsory
   920004J-01: Research Plan and Seminar, Research Plan, 3 op
   920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis
046002J: Dentistry, thesis, 0 op
Doctor of Philosophy, Community Dentistry

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis
046002J: Dentistry, thesis, 0 op

Doctor of Dental Science, Community Dentistry

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  

- **Compulsory**
  
  920004J-01: Research Plan and Seminar, Research Plan, 3 op  
  920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis**

046002J: Dentistry, thesis, 0 op

**Doctor of Medical Science, Physiotherapy**

Tutkintorakenteen tila: archived  
Lukuvuosi: 2012-13  
Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
*Compulsory*
- 920004J-01: Research Plan and Seminar, Research Plan, 3 op
- 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Medical Science, Dermatology & Venereology**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
*Compulsory*
- 920004J-01: Research Plan and Seminar, Research Plan, 3 op
- 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**
When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

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**Doctor of Medical Science, Surgery**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

- 920004J-01: Research Plan and Seminar, Research Plan, 3 op
- 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Medical Science, Neurosurgery**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
*Compulsory*  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Medical Science, Neurology**

Tutkintorakenteen tila: archived  
Lukuvuosi: 2012-13  
Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
*Compulsory*  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Medical Science, Clinical Genetics

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op
Doctor of Medical Science, Psychiatry

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op

Doctor of Medical Science, Ophthalmology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
Compulsory  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

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**Doctor of Medical Science, Internal Medicine**

Tutkintorakenteen tila: archived  
Lukuvuosi: 2012-13  
Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Medical Science, Obstetrics & Gynecology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op

Doctor of Medical Science, Oncology & Radiotherapy

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Physiotherapy

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
*Compulsory*  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Philosophy, Dermatology & Venereology**

Tutkintorakenteen tila: archived  
Lukuvuosi: 2012-13  
Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Surgery

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Ear, Nose & Throat Diseases

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op
Doctor of Philosophy, Paediatrics

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Neurosurgery

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Philosophy, Neurology**

Tutkintorakenteen tila: archived  
Lukuvuosi: 2012-13  
Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Philosophy, Clinical Genetics**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Psychiatry

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op

Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op
Doctor of Philosophy, Internal Medicine

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Ophthalmology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
*Compulsory*  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Philosophy, Obstetrics & Gynecology**

Tutkintorakenteen tila: archived  
Lukuvuosi: 2012-13  
Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

- 920004J-01: Research Plan and Seminar, Research Plan, 3 op
- 920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Oncology & Radiotherapy

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

- 920004J-01: Research Plan and Seminar, Research Plan, 3 op
- 920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

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**Doctor of Medical Science, Clinical Chemistry**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op
Doctor of Philosophy, Clinical Chemistry

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Medical Microbiology & Immunology

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
*Compulsory*  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Medical Science, Medical Microbiology & Immunology**

Tutkintorakenteen tila: archived  
Lukuvuosi: 2012-13  
Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
*Compulsory*
  920004J-01: Research Plan and Seminar, Research Plan, 3 op  
  920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Medical Science, Forensic Medicine**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
*Compulsory*
  920004J-01: Research Plan and Seminar, Research Plan, 3 op  
  920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Medical Science, Pathology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op
Doctor of Medical Science, Radiology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Forensic Medicine

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Pathology

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Radiology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Philosophy, Anatomy & Cell Biology**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op
Doctor of Medical Science, Anatomy & Cell Biology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Medical Science, Pharmacology & Toxicology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Philosophy, Pharmacology & Toxicology**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämääräh: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
   Compulsory
   920004J-01: Research Plan and Seminar, Research Plan, 3 op
   920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Physiology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
   Compulsory
   920004J-01: Research Plan and Seminar, Research Plan, 3 op
   920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Medical Science, Physiology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op
Doctor of Philosophy, Medical Biochemistry and Molecular Biology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Medical Science, Medical Biochemistry and Molecular Biology

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op  
920004J-01: Research Plan and Seminar, Research Plan, 3 op  
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Philosophy, Medical Technology**

Tutkintorakenteen tila: archived  
Lukuvuosi: 2012-13  
Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
   Compulsory
   920004J-01: Research Plan and Seminar, Research Plan, 3 op
   920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Medical Science, Medical Technology

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
   Compulsory
   920004J-01: Research Plan and Seminar, Research Plan, 3 op
   920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Arctic Medicine (Health Science)

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
356001J: Health Sciences, thesis, 0 op
Doctor of Medical Science, Arctic Medicine

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
   920004J-01: Research Plan and Seminar, Research Plan, 3 op
   920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Geriatrics (health science)

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

- 920004J: Research Plan and Seminar, 4 op
  - **Compulsory**
    - 920004J-01: Research Plan and Seminar, Research Plan, 3 op
    - 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

- 920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

- 356001J: Health Sciences, thesis, 0 op

**Doctor of Medical Science, Geriatrics**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintäään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Nursing Science

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintäään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

356001J: Health Sciences, thesis, 0 op

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**Doctor of Health Science, Nursing Science**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

356001J: Health Sciences, thesis, 0 op
Doctor of Philosophy, Public Health Science (health science)

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

356001J: Health Sciences, thesis, 0 op

Doctor of Medical Science, Public Health Science

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Philosophy, Clinical Laboratory Science**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

- **Compulsory**
  - 920004J-01: Research Plan and Seminar, Research Plan, 3 op
  - 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

356001J: Health Sciences, thesis, 0 op

**Doctor of Health Science, Clinical Laboratory Science**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op

920001J: Introduction to Doctoral Training, 1 op

920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

- **Compulsory**
  - 920004J-01: Research Plan and Seminar, Research Plan, 3 op
  - 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**
When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

356001J: Health Sciences, thesis, 0 op

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**Doctor of Philosophy, Radiography**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

356001J: Health Sciences, thesis, 0 op
Doctor of Health Science, Radiography

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
356001J: Health Sciences, thesis, 0 op

Doctor of Philosophy, Health Administration Sciences

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

- 920004J: Research Plan and Seminar, 4 op
  - Compulsory
    - 920004J-01: Research Plan and Seminar, Research Plan, 3 op
    - 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

- 920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

- 356001J: Health Sciences, thesis, 0 op

**Doctor of Health Science, Health Administration Sciences**

Tutkintorakkenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op
- Compulsory
  - 920004J-01: Research Plan and Seminar, Research Plan, 3 op
  - 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

356001J: Health Sciences, thesis, 0 op

**Doctor of Philosophy, Occupational Health (health science)**

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuodsen alkamispäivä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op
- Compulsory
  - 920004J-01: Research Plan and Seminar, Research Plan, 3 op
  - 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**
When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

356001J: Health Sciences, thesis, 0 op

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**Doctor of Medical Science, Occupational Health**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op  
920001J: Introduction to Doctoral Training, 1 op  
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

  920004J-01: Research Plan and Seminar, Research Plan, 3 op  
  920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op
Doctor of Philosophy, General Medicine

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

356001J: Health Sciences, thesis, 0 op

Doctor of Health Science, General Medicine

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

- 920004J: Research Plan and Seminar, 4 op
  - **Compulsory**
    - 920004J-01: Research Plan and Seminar, Research Plan, 3 op
    - 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

- 920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

- 356001J: Health Sciences, thesis, 0 op

**Doctor of Philosophy, Industrial Engineering and Management**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (4 - 8 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (32 - 36 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
   Compulsory
      920004J-01: Research Plan and Seminar, Research Plan, 3 op
      920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (180 op)

550001J: Industrial Engineering and Management, thesis, 0 op

Doctor of Philosophy, Process Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
   Compulsory
      920004J-01: Research Plan and Seminar, Research Plan, 3 op
      920004J-02: Research Plan and Seminar, seminar, 1 op
Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)
470001J: Process Engineering, thesis, 0 op

Doctor of Philosophy, Environmental Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)
Doctor of Philosophy, Architecture

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree

Another Field Specific Studies 28-32 credits.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op

  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)
450001J: Architecture, thesis, 0 op

Doctor of Philosophy, Automotive & Machine Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)
460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Machine Design

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
**Field Specific Studies (32 - 36 op)**

The objectives of field specific studies are to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (vähintään 180 op)**

460001J: Mechanical Engineering, thesis, 0 op

**Doctor of Philosophy, Materials Engineering**

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (4 - 8 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (32 - 36 op)**

The objectives of field specific studies are to introduce students to the field, to support research and to promote employment after the degree.
Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Mechatronics

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op
Teaching Tasks (enintään 4 op)
Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)
460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Machine Diagnostic
Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks
920006J: Teaching Tasks, 4 op
General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Construction Technology

Tutkintorakenteen tila: published
General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy (920005J).

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Technical Mechanics

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.
General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Production Technology

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.
Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

460001J: Mechanical Engineering, thesis, 0 op

Doctor of Philosophy, Photonics

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op
Teaching Tasks (enintään 4 op)

Depending on the major, a doctoral student may include teaching in his/her degree. In that case, he/she must have either formal pedagogy training, or follow a course of a minimum of 2 ECTS credits in higher education pedagogy (920005J).

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

520001J: Electrical Engineering, thesis, 0 op

Doctor of Philosophy, Electronics Design

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.


Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

520001J: Electrical Engineering, thesis, 0 op

Doctor of Philosophy, Electronics Materials and Components

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
   Compulsory
   920004J-01: Research Plan and Seminar, Research Plan, 3 op
   920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

520001J: Electrical Engineering, thesis, 0 op
General- and Transferable Skills Studies (4 - 8 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
      920004J-01: Research Plan and Seminar, Research Plan, 3 op
      920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

520001J: Electrical Engineering, thesis, 0 op

Doctor of Philosophy, Computer Science and Engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

521001J: Information Engineering, thesis, 0 op

Doctor of Philosophy, Communications Engineering

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
Field Specific Studies (28 - 36 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 19-27 credits.

521318S Modern Topics in Telecommunications and Radio Engineering at least 5 credits

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)

522001J: Telecommunication Engineering, thesis, 0 op

Doctor of Philosophy, Education

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in education may be required to take up to 10 credits of bridging studies. Students without a background in education carry out a degree of "Doctor of Philosophy". Students, who have background in education carry out a "Doctor of Philosophy (Education)" degree.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (20 - 26 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching tasks (enintään 6 op)

Teaching tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 160 op)

419105J: Doctoral thesis, 0 op

Doctor of Philosophy, Educational Psychology

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in education may be required to take up to 10 credits of bridging studies. Students without a background in education carry out a degree of "Doctor of Philosophy". Students, who have background in education carry out a "Doctor of Philosophy (Education)" degree.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (20 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op
General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in education may be required to take up to 10 credits of bridging studies. Students without a background in education carry out a degree of “Doctor of Philosophy”. Students, who have background in education carry out a “Doctor of Philosophy (Education)” degree.

Field Specific Studies (20 - 26 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Teaching tasks (enintään 6 op)

Teaching tasks

Doctoral Thesis (vähintään 160 op)

Doctoral Thesis (vähintään 160 op)

Doctor of Philosophy, Music Education
Doctor of Philosophy, Arctic Medicine (Medicine)

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
    920004J-01: Research Plan and Seminar, Research Plan, 3 op
    920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op

Doctor of Health Science, Arctic Medicine

Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

- 920004J: Research Plan and Seminar, 4 op
  - Compulsory
    - 920004J-01: Research Plan and Seminar, Research Plan, 3 op
    - 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

- 920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

- 356001J: Health Sciences, thesis, 0 op

**Doctor of Philosophy, Geriatrics (medicine)**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)
046001J: Medicine, thesis, 0 op

Doctor of Health Science, Geriatrics
Tutkintorakenteen tila: archived
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op
  Compulsory
  920004J-01: Research Plan and Seminar, Research Plan, 3 op
  920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

356001J: Health Sciences, thesis, 0 op

**Doctor of Health Science, Public Health Science**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

356001J: Health Sciences, thesis, 0 op
Doctor of Philosophy, Public Health Science (medicine)

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

General- and Transferable Skills Studies

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (12 - 16 op)

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Field Specific Studies

920004J: Research Plan and Seminar, 4 op

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op

Teaching Tasks (enintään 4 op)

When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks

920006J: Teaching Tasks, 4 op

Doctoral Thesis (0 op)

046001J: Medicine, thesis, 0 op

Doctor of Health Science, Occupational Health

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (vähintään 4 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

**Compulsory**

- 920004J-01: Research Plan and Seminar, Research Plan, 3 op
- 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

356001J: Health Sciences, thesis, 0 op

**Doctor of Philosophy, Occupational Health (medicine)**

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (vähintään 4 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

**General- and Transferable Skills Studies**

920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (12 - 16 op)**
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

**Field Specific Studies**

920004J: Research Plan and Seminar, 4 op

*Compulsory*

- 920004J-01: Research Plan and Seminar, Research Plan, 3 op
- 920004J-02: Research Plan and Seminar, seminar, 1 op

**Teaching Tasks (enintään 4 op)**

When the student has passed at least 2 credits of university pedagogical studies.

**Teaching Tasks**

920006J: Teaching Tasks, 4 op

**Doctoral Thesis (0 op)**

046001J: Medicine, thesis, 0 op

**Doctor of Technology, Electrical Engineering**

Tutkintorakenteen tila: published

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

**General- and Transferable Skills Studies (4 - 8 op)**

The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

**General- and Transferable Skills Studies**

- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920002J: Research ethics for doctoral students, 2 op

**Field Specific Studies (32 - 36 op)**

The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

**Field Specific Studies**

- 920004J: Research Plan and Seminar, 4 op
  *Compulsory*
  - 920004J-01: Research Plan and Seminar, Research Plan, 3 op
Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920006J: Teaching Tasks, 4 op

Doctoral Thesis (vähintään 180 op)
520001J: Electrical Engineering, thesis, 0 op

Doctor of Philosophy, Electrical engineering

Tutkintorakenteen tila: published
Lukuvuosi: 2012-13
Lukuvuoden alkamispäivämäärä: 01.08.2012

General- and Transferable Skills Studies (4 - 8 op)
The objectives of general and transferable skills studies are to support planning and fulfillment of doctoral training, to develop research ethics and to support career management.

Students without a background in electronical engineering may be required to take up to 15 credits of bridging studies. The bridging studies will reduce the required field specific studies.

General- and Transferable Skills Studies
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920002J: Research ethics for doctoral students, 2 op

Field Specific Studies (32 - 36 op)
The objectives of field specific studies is to introduce students to the field, to support research and to promote employment after the degree.

Another Field Specific Studies 28-32 credits.

Field Specific Studies
920004J: Research Plan and Seminar, 4 op

Teaching Tasks (enintään 4 op)
When the student has passed at least 2 credits of university pedagogical studies.

Teaching Tasks
920004J-01: Research Plan and Seminar, Research Plan, 3 op
920004J-02: Research Plan and Seminar, seminar, 1 op
Doctoral Thesis (vähintään 180 op)

520001J: Electrical Engineering, thesis, 0 op

Tutkintorakenteisiin kuulumattomat opintokokonaisuudet ja -jaksot

722130J: ACC, Major Subject Studies, 0 - 10 op
722131J: ACC, Major Subject Studies, Financial Accounting, 0 - 10 op
722132J: ACC, Major Subject Studies, Management Accounting, 0 - 10 op
722133J: ACC, Major Subject Studies, Special Issue, 0 - 10 op
722100J: ACC, Research Methodology, 0 - 10 op
722101J: ACC, Research Methodology, Research Methods, 0 - 10 op
722331J: ECON, Major Subject Studies, Macroeconomic Theory, 0 - 10 op
722330J: ECON, Major Subject Studies, Microeconomic Theory, 0 - 10 op
722332J: ECON, Major Subject Studies, Special Issues, 0 - 10 op
722300J: ECON, Research Methodology, Methodology and History of Economic Thought, 0 - 10 op
722301J: ECON, Research Methodology, Research Methods, 0 - 10 op
722930J: FIN, Major Subject Studies, 0 op
722901J: FIN, Research Methodology, Dissertation Analysis, 0 - 10 op
722900J: FIN, Research Methodology, Methodology, 0 - 10 op
722902J: FIN, Research Methodology, Research Methods, 0 - 10 op
722630J: IB, Major Subject Studies, 0 - 10 op
722631J: IB, Major Subject Studies, Specialisation Studies in International Business, 0 - 10 op
722600J: IB, Research Methodology, 0 - 10 op
722730J: LOG, Major Subject Studies, Logistics Theory and History, 0 - 10 op
722732J: LOG, Major Subject Studies, Special Issue in Logistics, 0 - 10 op
722731J: LOG, Major Subject Studies, Specialisation Studies in Logistics, 0 - 10 op
722700J: LOG, Research Methodology, 0 - 10 op
722530J: MAN&ORG, Major Subject Studies, Management Theory and History, 0 - 10 op
722532J: MAN&ORG, Major Subject Studies, Special Issues in Management and Organization, 0 - 10 op
722531J: MAN&ORG, Major Subject Studies, Specialisation Studies in Management and Organization, 0 - 10 op
722500J: MAN&ORG, Research Methodology, 0 - 10 op
722430J: MAR, Major subject studies, Marketing Theory and History, 0 - 10 op
722432J: MAR, Major subject studies, Special Issues in Marketing, 0 - 10 op
722431J: MAR, Major subject studies, Specialisation Studies in Marketing, 0 - 10 op
722400J: MAR, Research Methodology, 0 - 10 op
920010J: Scientific Communication, 0,5 op

Opintojaksojen kuvaukset

Tutkintorakenteisiin kuuluvien opintokohteiden kuvaukset

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.

Assessment methods and criteria:  
Evaluation of progress reports and plans.

Grading:  
pass / fail

Person responsible:  
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kielet: English

ECTS Credits:  
1 ECTS credit

Language of instruction:  
English

Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:  
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
Lectures, discussions, and networking.

**Learning activities and teaching methods:**
Obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8 h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
Pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
Lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
Pass/fail

**Person responsible:**
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

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920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  800702J  Teaching Tasks  0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

550001J: Industrial Engineering and Management, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Industrial Engineering and Management
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laij:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**ECTS Credits:**  
4 ECTS credits  
**Language of instruction:**  
English  
**Timing:**  
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

**All doctoral students**  
registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

**Learning outcomes:**  
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**  
The course includes two parts:

**Part one:**  
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**  
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**  
Personal work, written and oral presentations.

**Learning activities and teaching methods:**  
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**  
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**  
Background literature of own research field.

**Recommended or required reading:**  
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

**Assessment methods and criteria:**  
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**  
Pass / fail

**Person responsible:**  
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

**Voimassaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

**Voimassaolo:** 01.08.2013 - 31.07.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

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920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  800702J  Teaching Tasks  0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:
- Grading:
  Pass / fail
Person responsible:
Head of teaching in the unit.

722590J: MAN&ORG, Doctoral Dissertation, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Peronpec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences.
Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
### 920004J-01: Research Plan and Seminar, Research Plan, 3 op

**Voimassaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 920004J-02: Research Plan and Seminar, seminar, 1 op

**Voimassaolo:** 01.08.2013 - 31.07.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

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Compulsory
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
- Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:
- Grading:
Pass / fail
Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op
Voimassaolo: 01.08.2012 - 
Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish 

ECTS Credits: 
1 ECTS

Language of instruction: 
Language of meeting as appropriate, progress reports in English or Finnish. 

Timing: 
Once per year 

Learning outcomes: 
The student is able to report effectively on the plans and accomplishments of his/her training. 
The student is able to reflect on his/her training. 

Course objectives: 
Aiming to reflect own progress and plans of the doctoral training. 
Aiming to provide supplementary support for the doctoral training. 

Contents: 
Written and oral presentation reports and plans. 

Learning activities and teaching methods: 
Annual meetings. 

Assessment methods and criteria: 
Evaluation of progress reports and plans. 

Grading: 
pass / fail 

Person responsible: 
Chair of the Follow-up Group and Coorninators of UniOGS. 

920001J: Introduction to Doctoral Training, 1 op  

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kielet: English 

ECTS Credits: 
1 ECTS credit

Language of instruction: 
English 

Timing: 
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training. 

Learning outcomes: 
After the course the student knows about/the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life. 

Contents: 
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. 
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

**Learning outcomes:**
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
The course includes two parts:

**Part one:**
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, written and oral presentations.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**
Background literature of own research field.

**Recommended or required reading:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

**Assessment methods and criteria:**
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**
Pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee. **Part 2:** Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:
- Grading:
  Pass / fail
Person responsible:
Head of teaching in the unit.

470001J: Process Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Process and Environmental Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presention of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksojoukuksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694935J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

**Leikkaavuudet:**  
800702J Teaching Tasks 0.0 op  

**ECTS Credits:**  
Check the study requirements defined by your major subject.  

**Language of instruction:**  
Language of instruction.  

**Timing:**  
No limit  

**Learning outcomes:**  
The student is able to teach and/or supervise.  

**Course objectives:**  
Aiming to reinforce the doctoral student’s ability to teach and to support the construction of his/her teaching identity.  

**Contents:**  
- Teaching and supervision  

**Learning activities and teaching methods:**  
Depending on duties.  

**Prerequisites and co-requisites:**  
Must have at least 2 ECTS University pedagogic or equivalent training.  

**Assessment methods and criteria:**  
- Grading:  
Pass / fail  

**Person responsible:**  
Head of teaching in the unit.

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**520001J: Electrical Engineering, thesis, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Department of Electrical Engineering  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.

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**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:** lectures, discussions and networking.

**Learning activities and teaching methods:** obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:** The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:** Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:** Participation in lectures and discussions.

**Grading:** pass/fail

**Person responsible:** Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:** 2 ECTS credit

**Language of instruction:** English/Finnish

**Timing:** The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:** After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:** Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:** lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:** Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:** The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:** Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:** pass/fail

**Person responsible:** Jarmo Pulkkinen
**920004J: Research Plan and Seminar, 4 op**

**Voi massaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**ECTS Credits:**  
4 ECTS credits  
**Language of instruction:** English

**Timing:**  
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

**Learning outcomes:**  
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**  
The course includes two parts:

**Part one:**  
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**  
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**  
Personal work, written and oral presentations.

**Learning activities and teaching methods:**  
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**  
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**  
Background literature of own research field.

**Recommended or required reading:**  
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

**Assessment methods and criteria:**  
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**  
Pass / fail  
**Person responsible:**  
Supervisor, follow-up group and doctoral training committee. **Part 2:** Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**  
  800702J Teaching Tasks 0.0 op

**ECTS Credits:**  
Check the study requirements defined by your major subject.  
**Language of instruction:** Language of instruction.  
**Timing:** No limit  
**Learning outcomes:**  
The student is able to teach and/or supervise.  
**Course objectives:**  
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.  
**Contents:**  
* Teaching and supervision  
**Learning activities and teaching methods:**  
Depending on duties.  
**Prerequisites and co-requisites:**  
Must have at least 2 ECTS University pedagogic or equivalent training.  
**Assessment methods and criteria:**  
-  
**Grading:**  
Pass / fail  
**Person responsible:**  
Head of teaching in the unit.

### 520001J: Electrical Engineering, thesis, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Department of Electrical Engineering  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.

### 920007J: Follow-up Group Reporting and meetings, 1 op

**Voimassaolo:** 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

800702J  Teaching Tasks  0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Electrical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voitmassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.
U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web
addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimaassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take
the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical
problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences.
Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the
relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar, Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

ECTS Credits: Check the study requirements defined by your major subject.
Language of instruction: Language of instruction.
Timing: No limit
Learning outcomes: The student is able to teach and/or supervise.
Course objectives: Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents: * Teaching and supervision
Learning activities and teaching methods: Depending on duties.
Prerequisites and co-requisites: Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria: -
Grading: Pass / fail
Person responsible: Head of teaching in the unit.

520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Electrical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or
after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information
regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral
studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted
to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate
school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the
doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate
School and the research environment expect from the students; Procedures for addressing and redressing problems
related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel,
Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.
U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web
addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take
the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical
problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences.
Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the
relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaajo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyksikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The **optional component** covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services; day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in **Toolbox of Research**: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:

Grading:
Pass / fail
Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyksikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS  
Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year  
Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.

Assessment methods and criteria:  
Evaluation of progress reports and plans.

Grading:  
pass / fail  
Person responsible:  
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kielet: English

ECTS Credits:  
1 ECTS credit  
Language of instruction:  
English  
Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:  
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.  
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8 h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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920002J: Research ethics for doctoral students, 2 op

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:

After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:

Personal work, written and oral presentations.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:

Background literature of own research field.

Recommended or required reading:

Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
### 920004J-01: Research Plan and Seminar, Research Plan, 3 op

**Voimassaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 920004J-02: Research Plan and Seminar, seminar, 1 op

**Voimassaolo:** 01.08.2013 - 31.07.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

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920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:
- Grading:
Pass / fail
Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J  Research Plan and Seminar, Seminar  1.0 op
460023J  Research Plan and Seminar, Seminar  1.0 op
780614J  Research Plan and Seminar, seminar  1.0 op
793612J  Research Plan and Seminar, seminar  1.0 op
816624J  Research Plan and Seminar, seminar  1.0 op
771608J  Research Plan and Seminar, Seminar  1.0 op
800703J  Research Plan and Seminar, Seminar  1.0 op
694789J  Research Plan and Seminar, Seminar (Logopedics)  1.0 op
694935J  Research Plan and Seminar, Seminar (Information Studies)  1.0 op
693460J  Research Plan and Seminar, Seminar (German Language and Culture)  1.0 op
693682J  Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
682367J  Research Plan and Seminar, Seminar (English)  1.0 op
687239J  Research Plan and Seminar, Seminar (Cultural Anthropology)  1.0 op
687358J  Research Plan and Seminar, Seminar (Archaeology)  1.0 op
683496J  Research Plan and Seminar, Seminar (North Saami)  1.0 op
683658J  Research Plan and Seminar, Seminar (Inari Saami)  1.0 op
687170J  Research Plan and Seminar, Seminar (Literature)  1.0 op
700447J  Research Plan and Seminar, Seminar (History)  1.0 op
700122J  Research Plan and Seminar, Seminar (History of Science and Ideas)  1.0 op
694521J  Research Plan and Seminar, Seminar (Science Communication)  1.0 op
722001J  Research Plan and Seminar, Seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
046034J  Research plan and seminar, seminar  1.0 op
520023J  Research Plan and Seminar, Seminar  1.0 op
522023J  Research Plan and Seminar, Seminar  1.0 op
550023J  Research Plan and Seminar, Seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:
- Grading:
Pass / fail
Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 - 208
Opiskeluomotto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS  

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.  

Timing:  
Once per year

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training. 
The student is able to reflect on his/her training.  

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.

Assessment methods and criteria:  
Evaluation of progress reports and plans.

Grading:  
pass / fail

Person responsible:  
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -  
Opiskeluomotto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kielet: English

ECTS Credits:  
1 ECTS credit  

Language of instruction:  
English  

Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:  
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.  

Contents:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.  
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public prescription of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J  Research Plan and Seminar, Seminar  1.0 op
460023J  Research Plan and Seminar, Seminar  1.0 op
780614J  Research Plan and Seminar, seminar  1.0 op
793612J  Research Plan and Seminar, seminar  1.0 op
816624J  Research Plan and Seminar, seminar  1.0 op
771608J  Research Plan and Seminar, Seminar  1.0 op
800703J  Research Plan and Seminar, Seminar  1.0 op
694789J  Research Plan and Seminar, Seminar (Logopedics)  1.0 op
694642J  Research Plan and Seminar, Seminar (Information Studies)  1.0 op
694935J  Research Plan and Seminar, Seminar (Finnish Language)  1.0 op
693460J  Research Plan and Seminar, Seminar (German Language and Culture)  1.0 op
693682J  Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
682367J  Research Plan and Seminar, Seminar (English)  1.0 op
687239J  Research Plan and Seminar, Seminar (Cultural Anthropology)  1.0 op
687358J  Research Plan and Seminar, Seminar (Archaeology)  1.0 op
683496J  Research Plan and Seminar, Seminar (North Saami)  1.0 op
683658J  Research Plan and Seminar, Seminar (Inari Saami)  1.0 op
687170J  Research Plan and Seminar, Seminar (Literature)  1.0 op
700447J  Research Plan and Seminar, Seminar (History)  1.0 op
700122J  Research Plan and Seminar, Seminar (History of Science and Ideas)  1.0 op
694521J  Research Plan and Seminar, Seminar (Science Communication)  1.0 op
722001J  Research plan and seminar, seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
046034J  Research plan and seminar, seminar  1.0 op
520031J  Research Plan and Seminar, Seminar  1.0 op
522031J  Research Plan and Seminar, Seminar  1.0 op
550031J  Research Plan and Seminar, Seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:
- Grading:
Pass / fail
Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kiele: Finnish

ECTS Credits:  
1 ECTS  

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.

Assessment methods and criteria:  
Evaluation of progress reports and plans.

Grading:  
pass / fail

Person responsible:  
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voi massaolo: 01.08.2011 -

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kiele: English

ECTS Credits:  
1 ECTS credit

Language of instruction:  
English

Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:  
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voi massaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuu yksikkö: University of Oulu Graduate School, UniO GS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. 

Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksojakkauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

**Leikkaavuudet:**  
800702J Teaching Tasks 0.0 op

**ECTS Credits:**  
Check the study requirements defined by your major subject.  
**Language of instruction:**  
Language of instruction.  
**Timing:**  
No limit  
**Learning outcomes:**  
The student is able to teach and/or supervise.  
**Course objectives:**  
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.  
**Contents:**  
- Teaching and supervision  
**Learning activities and teaching methods:**  
Depending on duties.  
**Prerequisites and co-requisites:**  
Must have at least 2 ECTS University pedagogic or equivalent training.  
**Assessment methods and criteria:**  
-  
**Grading:**  
Pass / fail  
**Person responsible:**  
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op  

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Department of Mechanical Engineering  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op  

**Voimassaolo:** 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voi massaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:
- Grading:
  Pass / fail
Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 1 ECTS
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.
Timing: Once per year
Learning outcomes: The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.
Course objectives: Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.
Contents: Written and oral presentation reports and plans.
Learning activities and teaching methods: Annual meetings.
Assessment methods and criteria: Evaluation of progress reports and plans.
Grading: pass / fail
Person responsible: Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits: 1 ECTS credit
Language of instruction: English
Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Postgraduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  800702J Teaching Tasks 0.0 op

ECTS Credits: Check the study requirements defined by your major subject.
Language of instruction: Language of instruction.
Timing: No limit
Learning outcomes: The student is able to teach and/or supervise.
Course objectives: Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods: Depending on duties.
Prerequisites and co-requisites: Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria: -
Grading: Pass / fail
Person responsible: Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Postgraduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694935J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  800702J  Teaching Tasks  0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:
- Grading:
  Pass / fail
Person responsible:
Head of teaching in the unit.

521001J: Information Engineering, thesis, 0 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Computer Science and Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Assessment activities and teaching methods:
Annual meetings.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.
U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web
addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
 obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take
the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical
problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences.
Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the
relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
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920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes: After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents: The course includes two parts:

Part one: (920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two: (920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery: Personal work, written and oral presentations.
Learning activities and teaching methods: Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group: The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
Prerequisites and co-requisites: Background literature of own research field.
Recommended or required reading: Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.
Assessment methods and criteria: The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.
Grading: Pass / fail
Person responsible: Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:

Grading:
Pass / fail
Person responsible:
Head of teaching in the unit.

522001J: Telecommunication Engineering, thesis, 0 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyksikkö: Department of Electrical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Lajit: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Lajit: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

**ECTS Credits:**  
4 ECTS credits  
**Language of instruction:** English  
**Timing:**  
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.  

**All doctoral students** registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.  

**Learning outcomes:**  
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.  

**Contents:**  
The course includes two parts:  

**Part one:**  
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;  

**Part two:**  
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public **Research Plan Seminar**, or a **Research Seminar**.  

**Mode of delivery:**  
Personal work, written and oral presentations.  

**Learning activities and teaching methods:**  
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).  

**Target group:**  
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.  

**Prerequisites and co-requisites:**  
Background literature of own research field.  

**Recommended or required reading:**  
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a **Research (Plan) Seminar**.  

**Assessment methods and criteria:**  
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.  

**Grading:**  
Pass / fail  

**Person responsible:**  
Supervisor, follow-up group and doctoral training committee. **Part 2:** Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
Ei opintojaksojulkaisuja.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:
- Grading:
Pass / fail
Person responsible:
Head of teaching in the unit.

480001J: Environmental Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Process and Environmental Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish
Ei opintojaksojulkaisuja.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.
U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web
addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take
the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical
problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences.
Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the
relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J  Research Plan and Seminar, Seminar  1.0 op
460023J  Research Plan and Seminar, Seminar  1.0 op
780614J  Research Plan and Seminar, seminar  1.0 op
793612J  Research Plan and Seminar, seminar  1.0 op
816624J  Research Plan and Seminar, seminar  1.0 op
771608J  Research Plan and Seminar, Seminar  1.0 op
800703J  Research Plan and Seminar, Seminar  1.0 op
694789J  Research Plan and Seminar, Seminar (Logopedics)  1.0 op
694935J  Research Plan and Seminar, Seminar (Information Studies)  1.0 op
693460J  Research Plan and Seminar, Seminar (German Language and Culture)  1.0 op
693682J  Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
682367J  Research Plan and Seminar, Seminar (English)  1.0 op
687239J  Research Plan and Seminar, Seminar (Cultural Anthropology)  1.0 op
687358J  Research Plan and Seminar, Seminar (Archaeology)  1.0 op
683496J  Research Plan and Seminar, Seminar (North Saami)  1.0 op
683658J  Research Plan and Seminar, Seminar (Inari Saami)  1.0 op
687170J  Research Plan and Seminar, Seminar (Literature)  1.0 op
700447J  Research Plan and Seminar, Seminar (History)  1.0 op
700122J  Research Plan and Seminar, Seminar (History of Science and Ideas)  1.0 op
694521J  Research Plan and Seminar, Seminar (Science Communication)  1.0 op
722001J  Research plan and seminar, seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
046034J  Research plan and seminar, seminar  1.0 op
520023J  Research Plan and Seminar, Seminar  1.0 op
522023J  Research Plan and Seminar, Seminar  1.0 op
550023J  Research Plan and Seminar, Seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J  Teaching Tasks  0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

450001J: Architecture, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Architecture
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in **Toolbox of Research**: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
520203J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  800702J  Teaching Tasks  0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:
- Grading:
  Pass / fail
Person responsible:
Head of teaching in the unit.

722690J: IB, Doctoral Dissertation, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.
U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web
addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
(pass/fail)

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take
the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical
problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences.
Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the
relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
(pass/fail)

Person responsible:
Jarmo Pulkkinen
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

**Voimassaolo:** 01.08.2013 - 31.07.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

450023J Research Plan and Seminar, Seminar 1.0 op  
460023J Research Plan and Seminar, Seminar 1.0 op  
780614J Research Plan and Seminar, seminar 1.0 op  
793612J Research Plan and Seminar, seminar 1.0 op  
816624J Research Plan and Seminar, seminar 1.0 op  
771608J Research Plan and Seminar, Seminar 1.0 op  
800703J Research Plan and Seminar, Seminar 1.0 op  
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op  
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op  
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op  
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op  
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op  
682367J Research Plan and Seminar, Seminar (English) 1.0 op  
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op  
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op  
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op  
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op  
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op  
700447J Research Plan and Seminar, Seminar (History) 1.0 op  
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op  
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op  
722001J Research plan and seminar, seminar 1.0 op  
419115J Research plan and seminar, seminar 1.0 op  
046034J Research plan and seminar, seminar 1.0 op  
520023J Research Plan and Seminar, Seminar 1.0 op  
522023J Research Plan and Seminar, Seminar 1.0 op  
550023J Research Plan and Seminar, Seminar 1.0 op  
419115J Research plan and seminar, seminar 1.0 op
722309J: ECON, Doctoral Dissertation, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent); khy (excellent)
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes: After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents: The course includes two parts:

Part one: (920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
722190J: ACC, Doctoral Dissertation, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksovaluoksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**
**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

- **Voimassaolo:** 01.08.2011 -
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Course
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opettajat:** Jarmo Pulkkinen
- **Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

- **Voimassaolo:** 01.08.2012 - 31.12.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Course
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kielet:** Finnish
ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokeuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokeuvauksia.
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

722490J: MAR, Doctoral Dissertation, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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920001J: Introduction to Doctoral Training, 1 op

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**
Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 31.05.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish
ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

*Part one:*
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

*Part two:*
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750626J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiellet: Finnish
Leikkaavuudet: 800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

722790J: LOG, Doctoral dissertation, 0 - 180 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kiellet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiellet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:
Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksohuokausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014  
Opiskelumuoto: Post-graduate Studies  
Laji: Partial credit  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Leikkaavuudet:

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<td>419115J</td>
<td>Research plan and seminar, seminar</td>
<td>1.0 op</td>
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<td>766692J</td>
<td>Research Plan and Seminar</td>
<td>1.0 op</td>
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<td>480023J</td>
<td>Research Plan and Seminar, Seminar</td>
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<td>470023J</td>
<td>Research Plan and Seminar, Seminar</td>
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<td>Research Plan and Seminar, Seminar</td>
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<tr>
<td>750662J</td>
<td>Research plan seminar</td>
<td>1.0 op</td>
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Ei opintojaksohuokausia.
722990J: FIN, Doctoral dissertation, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyksikkö: Oulu Business School
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

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920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

**Voimassaolo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

**Learning outcomes:**
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
The course includes two parts:

**Part one:**
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, written and oral presentations.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).
Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksojouluksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Leikkaavuudet:
450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.
419105J: Doctoral thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Education
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kiele: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision
following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to
senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s
Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the
student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful
completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksohuoltoja.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

| 450023J | Research Plan and Seminar, Seminar | 1.0 op |
| 460023J | Research Plan and Seminar, Seminar | 1.0 op |
| 780614J | Research Plan and Seminar, seminar | 1.0 op |
| 793612J | Research Plan and Seminar, seminar | 1.0 op |
| 816624J | Research Plan and Seminar, seminar | 1.0 op |
| 771608J | Research Plan and Seminar, Seminar | 1.0 op |
| 800703J | Research Plan and Seminar, Seminar | 1.0 op |
| 694789J | Research Plan and Seminar, Seminar (Logopedics) | 1.0 op |
| 694642J | Research Plan and Seminar, Seminar (Information Studies) | 1.0 op |
| 694935J | Research Plan and Seminar, Seminar (Finnish Language) | 1.0 op |
| 693460J | Research Plan and Seminar, Seminar (German Language and Culture) | 1.0 op |
| 693682J | Research Plan and Seminar, Seminar (Swedish Language) | 1.0 op |
| 682367J | Research Plan and Seminar, Seminar (English) | 1.0 op |
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuuudet: 800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
**419105J: Doctoral thesis, 0 op**

**Voimassaolo:** 01.08.2005 -
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Faculty of Education  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry  
**Opintokohteen kielet:** English
ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

**Learning outcomes:**
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
The course includes two parts:

**Part one:**
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, written and oral presentations.
Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakoksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J  Research Plan and Seminar, Seminar  1.0 op
460023J  Research Plan and Seminar, Seminar  1.0 op
780614J  Research Plan and Seminar, seminar  1.0 op
793612J  Research Plan and Seminar, seminar  1.0 op
816624J  Research Plan and Seminar, seminar  1.0 op
771608J  Research Plan and Seminar, Seminar  1.0 op
800703J  Research Plan and Seminar, Seminar  1.0 op
694789J  Research Plan and Seminar, Seminar (Logopedics)  1.0 op
694642J  Research Plan and Seminar, Seminar (Information Studies)  1.0 op
694935J  Research Plan and Seminar, Seminar (Finnish Language)  1.0 op
693682J  Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
693460J  Research Plan and Seminar, Seminar (German Language and Culture)  1.0 op
693682J  Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J  Teaching Tasks  0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
Grading:
Pass / fail
Person responsible:
Head of teaching in the unit.

419105J: Doctoral thesis, 0 op
Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Education
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op
Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in [Toolbox of Research](#): 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

**Learning outcomes:**
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
The course includes two parts:

* **Part one:**
  - (920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

* **Part two:**
  - (920004J-02) 1 ECTS credit. Public presention of the research in the form of a public Research Plan Seminar, or a Research Seminar.
Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fiels of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
748615J: Ph.D. Thesis in Biochemistry, 0 - 180 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Biochemistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.
Assessment methods and criteria: Participation in lectures and discussions.
Grading: pass/fail
Person responsible: Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

755614J: Introductory essay of Ph. D. research, 4 op

Voimassaolo: - 31.07.2015
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Department of Biology
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English
Leikkaavuudet: 750659J Introductory essay of Ph. D. research 4.0 op

ECTS Credits: 4 cr.
**Language of instruction:**
English.

**Timing:**
Ph.D. 1st semester.

**Learning outcomes:**
Student learns about theories and recent progress of his/her own research area.

**Contents:**
Theories, methodology and progress of a specific research area.

**Mode of delivery:**
Face-to-face teaching.

**Learning activities and teaching methods:**
Independent work.

**Target group:**
Ph.D. degree: compulsory.

**Prerequisites and co-requisites:**
No.

**Recommended optional programme components:**
None.

**Recommended or required reading:**
Literature related to the research topic.

**Assessment methods and criteria:**
Ten pages long essay in English.

**Grading:**
Pass / Fail.

**Person responsible:**
Professors, supervisors.

**Working life cooperation:**
No.

**Other information:**
None.

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920004J: Research Plan and Seminar, 4 op

**Voimassaolo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Lajit:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

**Learning outcomes:**
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
The course includes two parts:

**Part one:**
300

( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**

( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, written and oral presentations.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**
Background literature of own research field.

**Recommended or required reading:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

**Assessment methods and criteria:**
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**
Pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

**Compulsory**

**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Ei opintojakoksokuvauksia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

**Voimassaolo:** 01.08.2013 - 31.07.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

**Leikkaavuudet:**

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<th>Code</th>
<th>Description</th>
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<td>Research Plan and Seminar, seminar</td>
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<td>Research Plan and Seminar, Seminar (Archaeology)</td>
<td>1.0 op</td>
</tr>
<tr>
<td>683496J</td>
<td>Research Plan and Seminar, Seminar (North Saami)</td>
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<td>Research Plan and Seminar, Seminar (Inari Saami)</td>
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<td>Research Plan and Seminar, Seminar (History)</td>
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<td>Research Plan and Seminar, Seminar (Science Communication)</td>
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<td>Research Plan and Seminar, Seminar</td>
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<td>Research Plan and Seminar, Seminar</td>
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</tr>
<tr>
<td>750662J</td>
<td>Research plan seminar</td>
<td>1.0 op</td>
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**Ei opintojaksokuvauksia.**

**755617J: Ph.D. thesis in animal ecology, 180 op**

- **Voimassaolo:** 31.07.2015
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Defence of the Ph. D. thesis
- **Vastuuysikkö:** Department of Biology
- **Arvostelu:** suor (pass), oiv (excellent), khy (excellent)
- **Opintokohteen kielet:** English

**Leikkaavuudet:**

<table>
<thead>
<tr>
<th>Registration</th>
<th>Course Description</th>
<th>Credits</th>
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<tr>
<td>750671J</td>
<td>Ph.D. thesis in biology</td>
<td>0.0 op</td>
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</tbody>
</table>

**Ei opintojaksokuvauksia.**

**920007J: Follow-up Group Reporting and meetings, 1 op**

- **Voimassaolo:** 01.08.2012 -
- **Opiskelumuoto:** Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opetajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**755614J: Introductory essay of Ph. D. research, 4 op**
ECTS Credits: 
4 cr.

Language of instruction: 
English.

Timing: 
Ph.D. 1st semester.

Learning outcomes: 
Student learns about theories and recent progress of his/hers own research area.

Contents: 
Theories, methodology and progress of a specific research area.

Mode of delivery: 
Face-to-face teaching.

Learning activities and teaching methods: 
Independent work.

Target group: 
Ph.D. degree: compulsory.

Prerequisites and co-requisites: 
No.

Recommended optional programme components: 
- 

Recommended or required reading: 
Literature related to the research topic.

Assessment methods and criteria: 
Ten pages long essay in English.

Grading: 
Pass / Fail.

Person responsible: 
Professors, supervisors.

Working life cooperation: 
No.

Other information: 
-

920004J: Research Plan and Seminar, 4 op

ECTS Credits: 
4 ECTS credits

Language of instruction: 
English

Timing: 
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikä: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
306

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

756635J: Ph.D. thesis in plant ecology, 180 op

Voimassaolo: - 31.07.2015
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Biology
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**755614J: Introductory essay of Ph. D. research, 4 op**

**Voimassaolo:** - 31.07.2015  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** Department of Biology  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** English  
**Leikkaavuudet:**  
750659J Introductory essay of Ph. D. research 4.0 op

**ECTS Credits:**
4 cr.

**Language of instruction:**
English.

**Timing:**
Ph.D. 1st semester.

**Learning outcomes:**
Student learns about theories and recent progress of his/hers own research area.

**Contents:**
Theories, methodology and progress of a specific research area.

**Mode of delivery:**
Face-to-face teaching.

**Learning activities and teaching methods:**
Independent work.

**Target group:**
Ph.D. degree: compulsory.

**Prerequisites and co-requisites:**
No.

**Recommended optional programme components:**
-

**Recommended or required reading:**
Literature related to the research topic.

**Assessment methods and criteria:**
Ten pages long essay in English.

**Grading:**
Pass / Fail.

**Person responsible:**
Professors, supervisors.

**Working life cooperation:**
No.

**Other information:**
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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
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682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
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419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
Research Plan and Seminar, Seminar 1.0 op
Research Plan and Seminar, Seminar 1.0 op
Research Plan and Seminar, Seminar 1.0 op
Research plan seminar 1.0 op

Ei opintojaksokuvausia.

755619J: Ph.D. thesis in animal physiology, 180 op

Voimassaolo: - 31.07.2015
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Biology
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Leikkaavuudet:
750671J Ph.D. thesis in biology 0.0 op

Ei opintojaksokuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Assessment activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish
ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

755614J: Introductory essay of Ph. D. research, 4 op

Voimassaolo: - 31.07.2015
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: Department of Biology
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English

Leikkaavuudet:
750659J Introductory essay of Ph. D. research 4.0 op

ECTS Credits:
4 cr.

Language of instruction:
English.

Timing:
Ph.D. 1 st semester.

Learning outcomes:
Student learns about theories and recent progress of his/hers own research area.

Contents:
Theories, methodology and progress of a specific research area.

Mode of delivery:
Face-to-face teaching.

Learning activities and teaching methods:
Independent work.

Target group:
Ph.D. degree: compulsory.

Prerequisites and co-requisites:
No.

Recommended optional programme components:

Recommended or required reading:
Literature related to the research topic.

Assessment methods and criteria:
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.
Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

Opiskelumuoto: Post-graduate Studies  
Laji: Partial credit  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

Voimassaolo: 01.08.2013 - 31.07.2014  
Opiskelumuoto: Post-graduate Studies  
Laji: Partial credit  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Leikkaavuudet:

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<td>Research Plan and Seminar, Seminar (History)</td>
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756637J: Ph.D. thesis in plant physiology, 180 op

Voimassaolo: 31.07.2015
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Biology
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish
Leikkaavuudet:
   750671J  Ph.D. thesis in biology  0.0 op

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 1 ECTS
Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.
Timing: Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

755614J: Introductory essay of Ph. D. research, 4 op

Voimassaolo: - 31.07.2015
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Department of Biology
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English
Leikkaavuudet:
750659J Introductory essay of Ph. D. research 4.0 op

ECTS Credits:
4 cr.
Language of instruction:
English.
Timing:
Ph.D. 1 st semester.
Learning outcomes:
Student learns about theories and recent progress of his/hers own research area.
Contents:
Theories, methodology and progress of a specific research area.

**Mode of delivery:**
Face-to-face teaching.

**Learning activities and teaching methods:**
Independent work.

**Target group:**
Ph.D. degree: compulsory.

**Prerequisites and co-requisites:**
No.

**Recommended optional programme components:**
-

**Recommended or required reading:**
Literature related to the research topic.

**Assessment methods and criteria:**
Ten pages long essay in English.

**Grading:**
Pass / Fail.

**Person responsible:**
Professors, supervisors.

**Working life cooperation:**
No.

**Other information:**
-

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

**Learning outcomes:**
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
The course includes two parts:

**Part one:**
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.
Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoyksikköä.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

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<td>Research Plan and Seminar, seminar</td>
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<td>Research Plan and Seminar (Information Studies)</td>
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757609J: Ph.D. thesis in genetics, 180 op

Voimassalo: - 31.07.2015
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Biology
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English
Leikkaavuudet:
   750671J  Ph.D. thesis in biology  0.0 op

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassalo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about/the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 - 31.12.2013
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in [Toolbox of Research]: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Person responsible of the relevant Majors/fields of doctoral studies. Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

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920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

764602J: Ph.D. Thesis in Biophysics, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Physics
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojakoksuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS  

**Language of instruction:**  
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**  
Once per year

**Learning outcomes:**  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.

**Course objectives:**  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

**Contents:**  
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**  
Annual meetings.

**Assessment methods and criteria:**  
Evaluation of progress reports and plans.

**Grading:**  
pass / fail

**Person responsible:**  
Chair of the Follow-up Group and Coorninators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohde:** English

**ECTS Credits:**  
1 ECTS credit

**Language of instruction:**  
English

**Timing:**  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**  
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.  
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).  
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**  
lectures, discussions and networking.

**Learning activities and teaching methods:**  
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Jarmo Pulkkinen  
**Opintokohteen kielet:** Finnish  

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in **Toolbox of Research**: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
**920004J-02: Research Plan and Seminar, seminar, 1 op**

*Voimassaolo:* 01.08.2013 - 31.07.2014  
*Opiskelumuoto:* Post-graduate Studies  
*Laji:* Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
*Arvostelu:* 1 - 5, pass, fail  
*Opintokohteen kielet:* Finnish  
*Leikkaavuudet:*
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
 Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

766602J: Ph.D. Thesis in Physics, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Physics
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J  Research Plan and Seminar, Seminar  1.0 op
460023J  Research Plan and Seminar, Seminar  1.0 op
780614J  Research Plan and Seminar, seminar  1.0 op
793612J  Research Plan and Seminar, seminar  1.0 op
816624J  Research Plan and Seminar, seminar  1.0 op
771608J  Research Plan and Seminar, Seminar  1.0 op
800703J  Research Plan and Seminar, Seminar  1.0 op
694789J  Research Plan and Seminar, Seminar (Logopedics)  1.0 op
694642J  Research Plan and Seminar, Seminar (Information Studies)  1.0 op
694935J  Research Plan and Seminar, Seminar (Finnish Language)  1.0 op
693460J  Research Plan and Seminar, Seminar (German Language and Culture)  1.0 op
693682J  Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
682367J  Research Plan and Seminar, Seminar (English)  1.0 op
687239J  Research Plan and Seminar, Seminar (Cultural Anthropology)  1.0 op
687358J  Research Plan and Seminar, Seminar (Archaeology)  1.0 op
683496J  Research Plan and Seminar, Seminar (North Saami)  1.0 op
683658J  Research Plan and Seminar, Seminar (Inari Saami)  1.0 op
687170J  Research Plan and Seminar, Seminar (Literature)  1.0 op
700447J  Research Plan and Seminar, Seminar (History)  1.0 op
700122J  Research Plan and Seminar, Seminar (History of Science and Ideas)  1.0 op
694521J  Research Plan and Seminar, Seminar (Science Communication)  1.0 op
722001J  Research plan and seminar, seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
046034J  Research plan and seminar, seminar  1.0 op
520023J  Research Plan and Seminar, Seminar  1.0 op
522023J  Research Plan and Seminar, Seminar  1.0 op
550023J  Research Plan and Seminar, Seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
766692J  Research Plan and Seminar  1.0 op
480023J  Research Plan and Seminar, Seminar  1.0 op
470023J  Research Plan and Seminar, Seminar  1.0 op
521023J  Research Plan and Seminar, Seminar  1.0 op
748617J  Research Plan and Seminar, Seminar  1.0 op
750662J  Research plan seminar  1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
     800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

762602J: Ph.D. Thesis in Geophysics, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Physics
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

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920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English
ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or
after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information
regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral
studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted
to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate
school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the
doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate
School and the research environment expect from the students; Procedures for addressing and redressing problems
related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel,
Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.
U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web
addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8 h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
Pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
Pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail
Opintokoulu: University of Oulu Graduate School

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Ei opintojakson kohdennuksia.

### 920004J-02: Research Plan and Seminar, seminar, 1 op

**Voimassaolo:** 01.08.2013 - 31.07.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

**Leikkaavuudet:**

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**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**  
800702J  
**ECTS Credits:**  

- **Language of instruction:**  
  - Language of instruction.  
- **Timings:**  
  - No limit  
- **Learning outcomes:**  
  - The student is able to teach and/or supervise.  
- **Course objectives:**  
  - Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.  
- **Contents:**  
  - Teaching and supervision  
- **Learning activities and teaching methods:**  
  - Depending on duties.  
- **Prerequisites and co-requisites:**  
  - Must have at least 2 ECTS University pedagogic or equivalent training.  
- **Assessment methods and criteria:**  
  - Grading: Pass / fail  
  - Person responsible: Head of teaching in the unit.

**763602J: Ph.D. Thesis in Theoretical Physics, 0 op**

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Department of Physics  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.

**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The **obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The **optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
Lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet: 800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:
- Grading:
  Pass / fail
Person responsible:
Head of teaching in the unit.

765602J: Ph.D. Thesis in Astronomy, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Physics
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokokeen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
Pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in [Toolbox of Research]: 1.4. Research ethics and the law

**Grading:**
Pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

Ei opintojakso-auksia.

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**920004J-02: Research Plan and Seminar, seminar, 1 op**

**Voimassaolo:** 01.08.2013 - 31.07.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Partial credit

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
800702J Teaching Tasks 0.0 op

ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

771603J: Ph. D. thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Geosciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksovalvontaa.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohde: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in [Toolbox of Research]: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Ei opintojakosokuvauksia.

### 920004J-02: Research Plan and Seminar, seminar, 1 op

**Voimassaolo:** 01.08.2013 - 31.07.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

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920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

ECTS Credits:
Check the study requirements defined by your major subject.
Language of instruction:
Language of instruction.
Timing:
No limit
Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.
Contents:
* Teaching and supervision
Learning activities and teaching methods:
Depending on duties.
Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.
Assessment methods and criteria:
Grading:
Pass / fail
Person responsible:
Head of teaching in the unit.

771603J: Ph. D. thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Geosciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
Pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in [Toolbox of Research]: 1.4. Research ethics and the law

**Grading:**
Pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail
Opintotoimen kielet: Finnish

ECTS Credits: 4 ECTS credits

Language of instruction: English

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:

After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

The course includes two parts:

Part one: (920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two: (920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:

Personal work, written and oral presentations.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:

The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:

Background literature of own research field.

Recommended or required reading:

Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:

The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:

Pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/Fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Ei opintojaksokuvauksia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

**Voimassaolo:** 01.08.2013 - 31.07.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

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785610J: Ph.D. Thesis in Inorganic Chemistry, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Chemistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U: Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
Lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kieleet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

*Part one:*
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

*Part two:*
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**
Background literature of own research field.

**Recommended or required reading:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

**Assessment methods and criteria:**
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**
Pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

**Compulsory**

**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

- **Voimassaolo:** 01.08.2012 - 31.12.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

- **Voimassaolo:** 01.08.2013 - 31.07.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

- 450023J  Research Plan and Seminar, Seminar  1.0 op
- 460023J  Research Plan and Seminar, Seminar  1.0 op
- 780614J  Research Plan and Seminar, seminar  1.0 op
- 793612J  Research Plan and Seminar, seminar  1.0 op
- 816624J  Research Plan and Seminar, seminar  1.0 op
- 771608J  Research Plan and Seminar, Seminar  1.0 op
- 800703J  Research Plan and Seminar, Seminar  1.0 op
- 694789J  Research Plan and Seminar, Seminar (Logopedics)  1.0 op
- 694642J  Research Plan and Seminar, Seminar (Information Studies)  1.0 op
- 694935J  Research Plan and Seminar, Seminar (Finnish Language)  1.0 op
- 693682J  Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
- 682367J  Research Plan and Seminar, Seminar (English)  1.0 op
### 786610J: Ph.D. Thesis in Physical Chemistry, 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Department of Chemistry  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

### 920007J: Follow-up Group Reporting and meetings, 1 op

**Voimassaolo:** 01.08.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**ECTS Credits:**  
1 ECTS  
**Language of instruction:**  
Language of meeting as appropriate, progress reports in English or Finnish.  
**Timing:**  
Once per year  
**Learning outcomes:**  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 31.12.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
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920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

787610J: Ph.D. Thesis in Organic Chemistry, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
920007J: Follow-up Group Reporting and meetings, 1 op

**Voimassaolo:** 01.08.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**ECTS Credits:**  
1 ECTS

**Language of instruction:**  
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**  
Once per year

**Learning outcomes:**  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.

**Course objectives:**  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

**Contents:**  
Written and oral presentation reports and plans.

**Assessment activities and teaching methods:**  
Annual meetings.

**Assessment methods and criteria:**  
Evaluation of progress reports and plans.

**Grading:**  
pass / fail

**Person responsible:**  
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

**Voimassaolo:** 01.08.2011 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry  
**Opintokohteen kielet:** English

**ECTS Credits:**  
1 ECTS credit

**Language of instruction:**  
English

**Timing:**  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Peronec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fiels of doctoral studies.*

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

**Voimassaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

Ei opintojakokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

**Voimassaolo:** 01.08.2013 - 31.07.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

450023J Research Plan and Seminar, Seminar 1.0 op  
460023J Research Plan and Seminar, Seminar 1.0 op  
780614J Research Plan and Seminar, seminar 1.0 op  
793612J Research Plan and Seminar, seminar 1.0 op  
816624J Research Plan and Seminar, seminar 1.0 op  
771608J Research Plan and Seminar, Seminar 1.0 op  
800703J Research Plan and Seminar, Seminar 1.0 op  
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op  
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op  
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op  
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op  
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op  
682367J Research Plan and Seminar, Seminar (English) 1.0 op  
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op  
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op  
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op  
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op  
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
52023J Research Plan and Seminar, Seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

88610J: Ph.D. Thesis in Structural Chemistry, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Chemistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

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920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one: (920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two: (920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

793607J: Ph.D. thesis in geography, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyksikkö: Department of Geography
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Learning activities and teaching methods:**
lectures, discussions and networking.

**Mode of delivery:**

- obligatory lectures and discussion, 7.5 h;
- optional lectures and discussion, 8h;
- networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 01.08.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish
ECTS Credits: 2 ECTS credits
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Lajit: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohde: Finnish

Ei opintojakson vakuutettavaa.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Lajit: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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<td>750662J</td>
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Ei opintojaksokuvauksia.

**920006J: Teaching Tasks, 4 op**

**Voomassaolo:** 01.08.2012 - 31.07.2013

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

800695J: Doctoral Thesis in Mathematics, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mathematical Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
**920002J: Research ethics for doctoral students, 2 op**

*Voimassaolo:* 01.08.2011 -
*Opiskelumuoto:* Post-graduate Studies
*Laji:* Course
*Vastuuysikkö:* University of Oulu Graduate School, UniOGS
*Arvostelu:* 1 - 5, pass, fail
*Opettajat:* Jarmo Pulkkinen
*Opintokohteen kielet:* Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

*Opiskelumuoto:* Post-graduate Studies
*Laji:* Course
*Vastuuysikkö:* University of Oulu Graduate School, UniOGS
*Arvostelu:* 1 - 5, pass, fail
*Opintokohteen kielet:* Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

**All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.**
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:
Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksojokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksojakuvausia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

801695J: Doctoral Thesis in Applied Mathematics, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mathematical Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish
ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students
registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011 , but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoukuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojakosokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

802695J: Doctoral Thesis in Statistics, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mathematical Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksovaatituksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Research Plan and Seminar, Seminar
- **Opintokohteen kielet:** Finnish

### Leikkaavuudet:

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<th>Course Description</th>
<th>Credits</th>
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</thead>
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<td>460023J</td>
<td>Research Plan and Seminar, Seminar</td>
<td>1.0 op</td>
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<td>Research Plan and Seminar, seminar</td>
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<td>Research Plan and Seminar, seminar</td>
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<td>694789J</td>
<td>Research Plan and Seminar, Seminar (Logopedics)</td>
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<td>694642J</td>
<td>Research Plan and Seminar, Seminar (Information Studies)</td>
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</tr>
<tr>
<td>750662J</td>
<td>Research plan seminar</td>
<td>1.0 op</td>
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Ei opintojaksokuvauksia.

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**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

### Leikkaavuudet:

<table>
<thead>
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<th>Code</th>
<th>Course</th>
<th>Credits</th>
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<td>Teaching Tasks</td>
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

816669J: Doctoral Thesis in Information Processing Science, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Information Processing Science
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and timeline of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative databases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U.; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:
Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;
Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakosokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

702104J: Doctoral dissertation (History of Science and Ideas), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Assessment activities and teaching methods:
Annual meetings.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems
related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail
Person responsible: Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakso­kuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
712004J: Doctoral dissertation (archaeology), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kieleet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kieleet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.
Contents:
Written and oral presentation reports and plans.
Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School

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920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish
ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, written and oral presentations.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**
Background literature of own research field.

**Recommended or required reading:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

**Assessment methods and criteria:**
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**
Pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

**Compulsory**

**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

- **Voimassaolo:** 01.08.2012 - 31.12.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kielet:** Finnish

Ei opintojaksojoukkoa.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

- **Voimassaolo:** 01.08.2013 - 31.07.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kielet:** Finnish
- **Leikkaavuudet:**
  - 450023J Research Plan and Seminar, Seminar 1.0 op
  - 460023J Research Plan and Seminar, Seminar 1.0 op
  - 780614J Research Plan and Seminar, seminar 1.0 op
  - 793612J Research Plan and Seminar, seminar 1.0 op
692004J: Doctoral dissertation (English), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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<td>470023J</td>
<td>Research Plan and Seminar, Seminar</td>
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<td>748617J</td>
<td>Research Plan and Seminar, Seminar</td>
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696004J: Doctoral Dissertation (German Language and Culture), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.
Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
700442J: Doctoral dissertation (History), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorinicators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.
Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
### 920004J-02: Research Plan and Seminar, seminar, 1 op

**Voimassaolo:** 01.08.2013 - 31.07.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

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Ei opintojaksokuvausia.

### 850004J: Doctoral dissertation (information Studies), 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis
**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -
**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coorninators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; Health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8 h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohde kielet: Finnish

ECTS Credits:
2 ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Puikkonen

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

**Learning outcomes:**
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
The course includes two parts:

**Part one:**
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, written and oral presentations.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
711104J: Doctoral dissertation (literature), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J  Research Plan and Seminar, Seminar  1.0 op
460023J  Research Plan and Seminar, Seminar  1.0 op
780614J  Research Plan and Seminar, seminar  1.0 op
793612J  Research Plan and Seminar, seminar  1.0 op
816624J  Research Plan and Seminar, seminar  1.0 op
771608J  Research Plan and Seminar, Seminar  1.0 op
800703J  Research Plan and Seminar, Seminar  1.0 op
694789J  Research Plan and Seminar, Seminar (Logopedics)  1.0 op
694642J  Research Plan and Seminar, Seminar (Information Studies)  1.0 op
694935J  Research Plan and Seminar, Seminar (Finnish Language)  1.0 op
693460J  Research Plan and Seminar, Seminar (German Language and Culture)  1.0 op
693682J  Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
682367J  Research Plan and Seminar, Seminar (English)  1.0 op
687239J  Research Plan and Seminar, Seminar (Cultural Anthropology)  1.0 op
687358J  Research Plan and Seminar, Seminar (Archaeology)  1.0 op
683496J  Research Plan and Seminar, Seminar (North Saami)  1.0 op
683658J  Research Plan and Seminar, Seminar (Inari Saami)  1.0 op
687170J  Research Plan and Seminar, Seminar (Literature)  1.0 op
700447J  Research Plan and Seminar, Seminar (History)  1.0 op
700122J  Research Plan and Seminar, Seminar (History of Science and Ideas)  1.0 op
694521J  Research Plan and Seminar, Seminar (Science Communication)  1.0 op
722001J  Research plan and seminar, seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
046034J  Research plan and seminar, seminar  1.0 op
520023J  Research Plan and Seminar, Seminar  1.0 op
522023J  Research Plan and Seminar, Seminar  1.0 op
550023J  Research Plan and Seminar, Seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
766692J  Research Plan and Seminar  1.0 op
480023J  Research Plan and Seminar, Seminar  1.0 op
470023J  Research Plan and Seminar, Seminar  1.0 op
521023J  Research Plan and Seminar, Seminar  1.0 op
748617J  Research Plan and Seminar, Seminar  1.0 op
750662J  Research plan seminar  1.0 op

Ei opintojakokuvauksia.

713104J: Doctoral dissertation (Cultural anthropology), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojakokuvauksia.
Follow-up Group Reporting and meetings, 1 op

**Voimassaolo:** 01.08.2012 - 01.08.2013
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Assessment activities and teaching methods:**
Annual meetings.

**Assessment methods and criteria:**
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

Introduction to Doctoral Training, 1 op

**Voimassaolo:** 01.08.2011 - 01.08.2012
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems
related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

**Compulsory**

### 920004J-01: Research Plan and Seminar, Research Plan, 3 op

- **Voimassaolo:** 01.08.2012 - 31.12.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kielet:** Finnish

Ei opintojakskokausia.

### 920004J-02: Research Plan and Seminar, seminar, 1 op

- **Voimassaolo:** 01.08.2013 - 31.07.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

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<th>Course Name</th>
<th>Credits</th>
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<td>1.0 op</td>
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<td>Research Plan and Seminar, Seminar</td>
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<td>Research Plan and Seminar, seminar</td>
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<td>Research Plan and Seminar, Seminar (Logopedics)</td>
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<td>Research Plan and Seminar, Seminar (Information Studies)</td>
<td>1.0 op</td>
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<tr>
<td>694935J</td>
<td>Research Plan and Seminar, Seminar (Finnish Language)</td>
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<td>Research Plan and Seminar, Seminar (Cultural Anthropology)</td>
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<td>Research Plan and Seminar, Seminar (Archaeology)</td>
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<td>Research Plan and Seminar, Seminar (North Saami)</td>
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<td>Research Plan and Seminar, Seminar (Inari Saami)</td>
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<tr>
<td>700447J</td>
<td>Research Plan and Seminar, Seminar (History)</td>
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<td>700122J</td>
<td>Research Plan and Seminar, Seminar (History of Science and Ideas)</td>
<td>1.0 op</td>
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<td>694521J</td>
<td>Research Plan and Seminar, Seminar (Science Communication)</td>
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<td>722001J</td>
<td>Research plan and seminar, seminar</td>
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<td>419115J</td>
<td>Research plan and seminar, seminar</td>
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<td>Research Plan and Seminar, Seminar</td>
<td>1.0 op</td>
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<td>522023J</td>
<td>Research Plan and Seminar, Seminar</td>
<td>1.0 op</td>
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### 739004J: Doctoral Thesis (Logopedics), 0 op

**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Defence of the Ph. D. thesis  
**Vastuuysikkö:** Faculty of Humanities  
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)  
**Opintokohteen kiele:** Finnish

### 920007J: Follow-up Group Reporting and meetings, 1 op

**Voimassaolo:** 01.08.2012 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kiele:** Finnish

**ECTS Credits:**  
1 ECTS  
**Language of instruction:**  
Language of meeting as appropriate, progress reports in English or Finnish.  
**Timing:**  
Once per year  
**Learning outcomes:**  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.  
**Course objectives:**  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.  
**Contents:**  
Written and oral presentation reports and plans.  
**Learning activities and teaching methods:**  
Annual meetings.  
**Assessment methods and criteria:**  
Evaluation of progress reports and plans.  
**Grading:**  
pass / fail  
**Person responsible:**  
Chair of the Follow-up Group and Coordinators of UniOGS.

### 920001J: Introduction to Doctoral Training, 1 op

**Voimassaolo:** 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish
ECTS Credits: 
2 ECTS credit

Language of instruction: 
English/Finnish

Timing: 
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes: 
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents: 
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery: 
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods: 
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites: 
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading: 
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

Grading: 
pass/fail

Person responsible: 
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 
4 ECTS credits

Language of instruction: 
English

Timing: 
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes: 
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents: 
The course includes two parts:

Part one:
443
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:** (920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, written and oral presentations.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**
Background literature of own research field.

**Recommended or required reading:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

**Assessment methods and criteria:**
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**
Pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

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**Compulsory**

**920004J-01: Research Plan and Seminar, Research Plan, 3 op**


*Opiskelumuoto:* Post-graduate Studies

*Laji:* Partial credit

*Vastuuysikkö:* University of Oulu Graduate School, UniOGS

*Arvostelu:* 1 - 5, pass, fail

*Opintokohteen kielet:* Finnish

Ei opintojakosukuvauksia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

*Voimassaolo:* 01.08.2013 - 31.07.2014

*Opiskelumuoto:* Post-graduate Studies

*Laji:* Partial credit

*Vastuuysikkö:* University of Oulu Graduate School, UniOGS

*Arvostelu:* 1 - 5, pass, fail

*Opintokohteen kielet:* Finnish

*Leikkaavuudet:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>460023J</td>
<td>Research Plan and Seminar, Seminar</td>
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<tr>
<td>780614J</td>
<td>Research Plan and Seminar, seminar</td>
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</tr>
<tr>
<td>793612J</td>
<td>Research Plan and Seminar, seminar</td>
<td>1.0 op</td>
</tr>
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</table>
687004J: Doctoral Dissertation (Swedish Language), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokevausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analysed ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
680004J: Doctoral dissertation (Finnish Language), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English
ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

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920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of Instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presention of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.
Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

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<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credits</th>
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<td>450023J</td>
<td>Research Plan and Seminar, Seminar</td>
<td>1.0 op</td>
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<td>460023J</td>
<td>Research Plan and Seminar, Seminar</td>
<td>1.0 op</td>
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<td>780614J</td>
<td>Research Plan and Seminar, seminar</td>
<td>1.0 op</td>
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<td>Research Plan and Seminar, seminar</td>
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<td>Research Plan and Seminar, Seminar</td>
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<td>800703J</td>
<td>Research Plan and Seminar, Seminar</td>
<td>1.0 op</td>
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<tr>
<td>694789J</td>
<td>Research Plan and Seminar, Seminar (Logopedics)</td>
<td>1.0 op</td>
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<td>Research Plan and Seminar, Seminar (Information Studies)</td>
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<td>Research Plan and Seminar, Seminar (German Language and Culture)</td>
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<td>693682J</td>
<td>Research Plan and Seminar, Seminar (Swedish Language)</td>
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694525J: Doctoral dissertation (Science Communication), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Humanities
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS
Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.
Timing:
Once per year
Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 01.08.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law.

Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

**Part one:**
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

**Recommended or required reading:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. **Part 2:** Responsible persons of the relevant Majors/fields of doctoral studies.

**Compulsory**

920004J-01: Research Plan and Seminar, Research Plan, 3 op

**Voimassaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvauksia.
920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

682009J: Doctoral dissertation (Saami Language), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School

920002J: Research ethics for doctoral students, 2 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Puukkinen

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**920004J: Research Plan and Seminar, 4 op**

**Voiomassalo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.

**Learning outcomes:**
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
The course includes two parts:

**Part one:**
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, written and oral presentations.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.
Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:
450023J  Research Plan and Seminar, Seminar  1.0 op
460023J  Research Plan and Seminar, Seminar  1.0 op
780614J  Research Plan and Seminar, seminar  1.0 op
793612J  Research Plan and Seminar, seminar  1.0 op
816624J  Research Plan and Seminar, seminar  1.0 op
771608J  Research Plan and Seminar, Seminar  1.0 op
800703J  Research Plan and Seminar, Seminar  1.0 op
694789J  Research Plan and Seminar, Seminar (Logopedics)  1.0 op
694642J  Research Plan and Seminar, Seminar (Information Studies)  1.0 op
694935J  Research Plan and Seminar, Seminar (Finnish Language)  1.0 op
693460J  Research Plan and Seminar, Seminar (German Language and Culture)  1.0 op
693682J  Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
682367J  Research Plan and Seminar, Seminar (English)  1.0 op
687239J  Research Plan and Seminar, Seminar (Cultural Anthropology)  1.0 op
687358J  Research Plan and Seminar, Seminar (Archeology)  1.0 op
683496J  Research Plan and Seminar, Seminar (North Saami)  1.0 op
683658J  Research Plan and Seminar, Seminar (Inari Saami)  1.0 op
687170J  Research Plan and Seminar, Seminar (Literature)  1.0 op
682013J: Doctoral dissertation (Saami Culture), 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Giellagas Institute for Saami Studies
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
**Assessment methods and criteria:**
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. The **obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.). The **optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 01.08.2012
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kieleet: Finnish

Ei opintojaksonkuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksonkuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(92004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(92004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

92004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

92004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohde: Finnish
### Leikkaavuudet:

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Ei opintojakoksokuvauksia.

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### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohde:** Finnish  
**Leikkaavuudet:**  
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
**Assessment methods and criteria:**
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011-

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakosokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

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Ei opintojakosokuvauksia.
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikko: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojakosokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikko: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:
Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;
Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokevauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
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Ei opintojakokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojakokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voinmassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law.
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

- 450023J Research Plan and Seminar, Seminar 1.0 op
- 460023J Research Plan and Seminar, Seminar 1.0 op
- 780614J Research Plan and Seminar, seminar 1.0 op
- 793612J Research Plan and Seminar, seminar 1.0 op
- 816624J Research Plan and Seminar, seminar 1.0 op
- 771608J Research Plan and Seminar, Seminar 1.0 op
- 800703J Research Plan and Seminar, Seminar 1.0 op
- 694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
- 694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
- 694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
- 693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
- 693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
- 682367J Research Plan and Seminar, Seminar (English) 1.0 op
- 687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
- 687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
- 683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
- 683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
- 687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
- 700447J Research Plan and Seminar, Seminar (History) 1.0 op
- 700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
- 694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
- 722001J Research plan and seminar, seminar 1.0 op
- 419115J Research plan and seminar, seminar 1.0 op
- 046034J Research plan and seminar, seminar 1.0 op
- 520023J Research Plan and Seminar, Seminar 1.0 op
- 522023J Research Plan and Seminar, Seminar 1.0 op
- 550023J Research Plan and Seminar, Seminar 1.0 op
- 419115J Research plan and seminar, seminar 1.0 op
- 766692J Research Plan and Seminar 1.0 op
- 480023J Research Plan and Seminar, Seminar 1.0 op
- 470023J Research Plan and Seminar, Seminar 1.0 op
- 521023J Research Plan and Seminar, Seminar 1.0 op
- 748617J Research Plan and Seminar, Seminar 1.0 op
- 750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

- 800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

**Language of instruction:**
Language of instruction.

**Timing:**
No limit

**Learning outcomes:**
The student is able to teach and/or supervise.

**Course objectives:**
Aiming to reinforce the doctoral student’s ability to teach and to support the construction of his/her teaching identity.

**Contents:**
* Teaching and supervision

**Learning activities and teaching methods:**
Depending on duties.

**Prerequisites and co-requisites:**
Must have at least 2 ECTS University pedagogic or equivalent training.

**Assessment methods and criteria:**
- 

**Grading:**
Pass / fail

**Person responsible:**
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

**Voimassaolo:** 01.08.2005 - 
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Defence of the Ph. D. thesis
**Vastuuysikkö:** Institute of Dentistry
**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)
**Opintokohteen kielet:** English

Ei opintokaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

**Voimassaolo:** 01.08.2012 - 
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

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Ei opintojaksokuvauksia.
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria: Evaluation of progress reports and plans.
Grading: pass / fail
Person responsible: Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits: 1 ECTS credit
Language of instruction: English
Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery: lectures, discussions and networking.
Learning activities and teaching methods: obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading: Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: Participation in lectures and discussions.
Grading: pass/fail
Person responsible: Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. **Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.**

**Compulsory**

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakson kohde.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 01.08.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(92004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(92004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojakoksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J   Teaching Tasks   0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoenkäymisiä.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J  Research Plan and Seminar, Seminar  1.0 op
460023J  Research Plan and Seminar, Seminar  1.0 op
780614J  Research Plan and Seminar, seminar  1.0 op
793612J  Research Plan and Seminar, seminar  1.0 op
816624J  Research Plan and Seminar, seminar  1.0 op
771608J  Research Plan and Seminar, Seminar  1.0 op
800703J  Research Plan and Seminar, Seminar  1.0 op
694789J  Research Plan and Seminar, Seminar (Logopedics)  1.0 op
694642J  Research Plan and Seminar, Seminar (Information Studies)  1.0 op
694935J  Research Plan and Seminar, Seminar (Finnish Language)  1.0 op
693460J  Research Plan and Seminar, Seminar (German Language and Culture)  1.0 op
693682J  Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
682367J  Research Plan and Seminar, Seminar (English)  1.0 op
687239J  Research Plan and Seminar, Seminar (Cultural Anthropology)  1.0 op
687358J  Research Plan and Seminar, Seminar (Archaeology)  1.0 op
683496J  Research Plan and Seminar, Seminar (North Saami)  1.0 op
683658J  Research Plan and Seminar, Seminar (Inari Saami)  1.0 op
687170J  Research Plan and Seminar, Seminar (Literature)  1.0 op
700447J  Research Plan and Seminar, Seminar (History)  1.0 op
700122J  Research Plan and Seminar, Seminar (History of Science and Ideas)  1.0 op
694521J  Research Plan and Seminar, Seminar (Science Communication)  1.0 op
722001J  Research plan and seminar, seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
046034J  Research plan and seminar, seminar  1.0 op
520023J  Research Plan and Seminar, Seminar  1.0 op
522023J  Research Plan and Seminar, Seminar  1.0 op
550023J  Research Plan and Seminar, Seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
766692J  Research Plan and Seminar  1.0 op
480023J  Research Plan and Seminar, Seminar  1.0 op
470023J  Research Plan and Seminar, Seminar  1.0 op
521023J  Research Plan and Seminar, Seminar  1.0 op
748617J  Research Plan and Seminar, Seminar  1.0 op
750662J  Research plan seminar  1.0 op

Ei opintojaksojakaufsia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J  Teaching Tasks  0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksojukuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee.  Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kieleet: Finnish

Ei opintojaksonkuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojakosokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School.
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes: 
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.). The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services, day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaalo: 01.08.2011 - 01.08.2014
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 92004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 92004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
- Opiskelumuoto: Post-graduate Studies
- Laji: Partial credit
- Vastuuysikkö: University of Oulu Graduate School, UniOGS
- Arvostelu: 1 - 5, pass, fail
- Opintokohteen kielet: Finnish

Ei opintojakosokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
- Voimassaolo: 01.08.2013 - 31.07.2014
- Opiskelumuoto: Post-graduate Studies
- Laji: Partial credit
- Vastuuysikkö: University of Oulu Graduate School, UniOGS
- Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar  1.0 op
460023J Research Plan and Seminar, Seminar  1.0 op
780614J Research Plan and Seminar, seminar  1.0 op
793612J Research Plan and Seminar, seminar  1.0 op
816624J Research Plan and Seminar, seminar  1.0 op
771608J Research Plan and Seminar, Seminar  1.0 op
800703J Research Plan and Seminar, Seminar  1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics)  1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies)  1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language)  1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture)  1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
682367J Research Plan and Seminar, Seminar (English)  1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology)  1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology)  1.0 op
683496J Research Plan and Seminar, Seminar (North Saami)  1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami)  1.0 op
687170J Research Plan and Seminar, Seminar (Literature)  1.0 op
700447J Research Plan and Seminar, Seminar (History)  1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas)  1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication)  1.0 op
722001J Research plan and seminar, seminar  1.0 op
419115J Research plan and seminar, seminar  1.0 op
046034J Research plan and seminar, seminar  1.0 op
520023J Research Plan and Seminar, Seminar  1.0 op
522023J Research Plan and Seminar, Seminar  1.0 op
550023J Research Plan and Seminar, Seminar  1.0 op
419115J Research plan and seminar, seminar  1.0 op
766692J Research Plan and Seminar  1.0 op
480023J Research Plan and Seminar, Seminar  1.0 op
470023J Research Plan and Seminar, Seminar  1.0 op
521023J Research Plan and Seminar, Seminar  1.0 op
748617J Research Plan and Seminar, Seminar  1.0 op
750662J Research plan seminar  1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks  0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

**Voimassaolo:** 01.08.2012 - 31.12.2014
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

**All doctoral students** registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakoksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
**ECTS Credits:**
Check the study requirements defined by your major subject.

**Language of instruction:**
Language of instruction.

**Timing:**
No limit

**Learning outcomes:**
The student is able to teach and/or supervise.

**Course objectives:**
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

**Contents:**
- Teaching and supervision

**Learning activities and teaching methods:**
Depending on duties.

**Prerequisites and co-requisites:**
Must have at least 2 ECTS University pedagogic or equivalent training.

**Assessment methods and criteria:**
- Grading:
  - Pass / fail

**Person responsible:**
Head of teaching in the unit.

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**046002J: Dentistry, thesis, 0 op**

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

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**920007J: Follow-up Group Reporting and meetings, 1 op**

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timo-Saar-Hyry
Opintokohde: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presention of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohde: Research Plan and Seminar, Seminar

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojakosokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohde: Research Plan and Seminar, Seminar
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:  
Check the study requirements defined by your major subject.

Language of instruction:  
Language of instruction.

Timing:  
No limit

Learning outcomes:  
The student is able to teach and/or supervise.

Course objectives:  
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:  
- Teaching and supervision

Learning activities and teaching methods:  
Depending on duties.

Prerequisites and co-requisites:  
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:  
- Grading: Pass / fail

Person responsible:  
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Defence of the Ph. D. thesis  
Vastuuysikkö: Institute of Dentistry  
Arvostelu: suor (pass), oiv (excellent), khy (excellent)  
Opintokohteen kielet: English

Ei opintojakoksouvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintoaineen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 01.08.2014
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credits
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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Ei opintojaksokuvauksia.

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**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

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<th>Nimi</th>
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<td>Teaching Tasks</td>
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
Pass / fail

Person responsible:
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksoalueita.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The **obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The **optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksonkuvauksia.

920006J: Teaching Tasks, 4 op

Voitmassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits: 
Check the study requirements defined by your major subject.

Language of instruction: 
Language of instruction.

Timing: 
No limit

Learning outcomes: 
The student is able to teach and/or supervise.

Course objectives: 
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents: 
* Teaching and supervision

Learning activities and teaching methods: 
Depending on duties.

Prerequisites and co-requisites: 
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria: 
- 

Grading: 
Pass / fail

Person responsible: 
Head of teaching in the unit.

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 - 
Opiskeluoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Dentistry
Arvostelu: suor (pass), ov (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 - 
Opiskeluoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 
1 ECTS

Language of instruction: 
Language of meeting as appropriate, progress reports in English or Finnish.

Timing: 
Once per year

Learning outcomes: 
The student is able to report effectively on the plans and accomplishments of his/her training. 
The student is able to reflect on his/her training.

Course objectives: 
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents: 
Written and oral presentation reports and plans.

Learning activities and teaching methods: 
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.). The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687358J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojakoksokuvausia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kiele: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and evey-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohteen kielet: Finnish

### Leikkaavuudet:

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**Ei opintojaksokuvauksia.**

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### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

### Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kieleet: Finnish

Ei opintojaksojoukkoa.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 - 
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
**Assessment methods and criteria:**
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 01.08.2012
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
- Opiskelumuoto: Post-graduate Studies
- Laji: Partial credit
- Vastuuysikkö: University of Oulu Graduate School, UniOGS
- Arvostelu: 1 - 5, pass, fail
- Opintokohteen kiele: Finnish

Ei opintojaksookuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
- Voimassaolo: 01.08.2013 - 31.07.2014
- Opiskelumuoto: Post-graduate Studies
- Laji: Partial credit
- Vastuuysikkö: University of Oulu Graduate School, UniOGS
- Arvostelu: 1 - 5, pass, fail
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J  Teaching Tasks  0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

**Language of instruction:**
Language of instruction.

**Timing:**
No limit

**Learning outcomes:**
The student is able to teach and/or supervise.

**Course objectives:**
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

**Contents:**
- Teaching and supervision

**Learning activities and teaching methods:**
Depending on duties.

**Prerequisites and co-requisites:**
Must have at least 2 ECTS University pedagogic or equivalent training.

**Assessment methods and criteria:**

- Grading:
  Pass / fail

**Person responsible:**
Head of teaching in the unit.

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**046001J: Medicine, thesis, 0 op**

**Voimassaolo:** 01.08.2005 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Defence of the Ph. D. thesis

**Vastuuysikkö:** Medicine

**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)

**Opintokohteen kielet:** English

Ei opintojakosokuvauksia.

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**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law.
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Postgraduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Postgraduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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Ei opintojaksojakaufsia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojakosokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

**Part one:**
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public *Research Plan Seminar*, or a *Research Seminar*.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a *Research (Plan) Seminar*.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*
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920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksojokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria: Evaluation of progress reports and plans.
Grading: pass / fail
Person responsible: Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits: 1 ECTS credit
Language of instruction: English
Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.). The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery: lectures, discussions and networking.
Learning activities and teaching methods: obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading: Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: Participation in lectures and discussions.
Grading: pass/fail
Person responsible: Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikko: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojakson kokua.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikko: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Leikkaavuudet:

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Ei opintojaksojaksuvauxia.

920006J: **Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credits</th>
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<tr>
<td>800702J</td>
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</table>
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaoly: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyksikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaoly: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(92004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(92004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksoaokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohteen kielet: Finnish

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Ei opintojakokuvauksia.

### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

#### Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria: Evaluation of progress reports and plans.
Grading: pass / fail
Person responsible: Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits: 1 ECTS credit
Language of instruction: English
Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery: lectures, discussions and networking.
Learning activities and teaching methods: obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading: Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: Participation in lectures and discussions .
Grading: pass/fail
Person responsible: Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how
to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral
training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The
student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral
Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision
following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to
senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-
up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s
Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the
student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful
completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksonkauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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Ei opintojakso kukausia.

**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**

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ECTS Credits:  
Check the study requirements defined by your major subject.

Language of instruction:  
Language of instruction.

Timing:  
No limit

Learning outcomes:  
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:  
* Teaching and supervision

Learning activities and teaching methods:  
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:  
- 

Grading:  
Pass / fail

Person responsible:  
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Defence of the Ph. D. thesis  
Vastuuysikkö: Medicine  
Arvostelu: suor (pass), oiv (excellent), khy (excellent)  
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.  
The student is able to reflect on his/her training.

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.  
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

**Part one:**
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public *Research Plan Seminar*, or a *Research Seminar*.

Mode of delivery:
Personal work, written and oral presentations.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**
Background literature of own research field.

**Recommended or required reading:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a *Research (Plan) Seminar*.

**Assessment methods and criteria:**
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**
Pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

**Compulsory**

**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

- **Voimassaolo:** 01.08.2012 - 31.12.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kielet:** Finnish

  Ei opintojaksokuvauksia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

- **Voimassaolo:** 01.08.2013 - 31.07.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
### Opintokohteen kielet
Finnish

#### Leikkaavuudet

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Ei opintojaksokuvauksia.

### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikko:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

#### Leikkaavuudet

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687358J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Available or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuyksikö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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920004J: Research Plan and Seminar, 4 op

**Voimassaolo:** 01.08.2012 - 31.12.2014
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuyksikö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

**All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksonkuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J  Teaching Tasks  0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskeluomo: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuo: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School.
920002J: Research ethics for doctoral students, 2 op

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit
**Language of instruction:**
English/Finnish
**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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920004J: Research Plan and Seminar, 4 op

**Voimassaolo:** 01.08.2012 - 31.12.2014
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits
**Language of instruction:**
English
**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

**All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

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<th>Code</th>
<th>Description</th>
<th>Credits</th>
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojakosokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction: English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction: English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakson vakiokausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J  Research Plan and Seminar, Seminar  1.0 op
460023J  Research Plan and Seminar, Seminar  1.0 op
780614J  Research Plan and Seminar, seminar  1.0 op
793612J  Research Plan and Seminar, seminar  1.0 op
816624J  Research Plan and Seminar, seminar  1.0 op
771608J  Research Plan and Seminar, Seminar  1.0 op
800703J  Research Plan and Seminar, Seminar  1.0 op
694789J  Research Plan and Seminar, Seminar (Logopedics)  1.0 op
694642J  Research Plan and Seminar, Seminar (Information Studies)  1.0 op
694935J  Research Plan and Seminar, Seminar (Finnish Language)  1.0 op
693460J  Research Plan and Seminar, Seminar (German Language and Culture)  1.0 op
693682J  Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
682367J  Research Plan and Seminar, Seminar (English)  1.0 op
687239J  Research Plan and Seminar, Seminar (Cultural Anthropology)  1.0 op
687358J  Research Plan and Seminar, Seminar (Archaeology)  1.0 op
683496J  Research Plan and Seminar, Seminar (North Saami)  1.0 op
683658J  Research Plan and Seminar, Seminar (Inari Saami)  1.0 op
687170J  Research Plan and Seminar, Seminar (Literature)  1.0 op
700447J  Research Plan and Seminar, Seminar (History)  1.0 op
700122J  Research Plan and Seminar, Seminar (History of Science and Ideas)  1.0 op
694521J  Research Plan and Seminar, Seminar (Science Communication)  1.0 op
722001J  Research plan and seminar, seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
046034J  Research plan and seminar, seminar  1.0 op
520023J  Research Plan and Seminar, Seminar  1.0 op
522023J  Research Plan and Seminar, Seminar  1.0 op
550023J  Research Plan and Seminar, Seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
766692J  Research Plan and Seminar  1.0 op
480023J  Research Plan and Seminar, Seminar  1.0 op
470023J  Research Plan and Seminar, Seminar  1.0 op
521023J  Research Plan and Seminar, Seminar  1.0 op
748617J  Research Plan and Seminar, Seminar  1.0 op
750662J  Research plan seminar  1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J  Teaching Tasks  0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

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046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokeuvauksia.

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920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.
Opintokohteen kielet: Finnish
Leikkaavuudet:

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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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<td>800702J</td>
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise. 
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojakosokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 31.12.2011
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in "Toolbox of Research": 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

**Part one:**
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

**Compulsory**

**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojakso{kukan{kiasia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

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ETCS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
**Assessment methods and criteria:**
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

---

**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. **The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.). **The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoalueita.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

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Ei opintojakso

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuyksikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

**Voimassaolo:** 01.08.2012 - 31.12.2014
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

**All doctoral students**
registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
- Opiskelumuoto: Post-graduate Studies
- Laji: Partial credit
- Vastuuysikkö: University of Oulu Graduate School, UniOGS
- Arvostelu: 1 - 5, pass, fail
- Opintokohteen kielet: Finnish

Ei opintojaksookuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
- Voimassaolo: 01.08.2013 - 31.07.2014
- Opiskelumuoto: Post-graduate Studies
- Laji: Partial credit
- Vastuuysikkö: University of Oulu Graduate School, UniOGS
- Arvostelu: 1 - 5, pass, fail
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Ei opintojaksokuvauksia.

**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**  
800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

**Language of instruction:**
Language of instruction.

**Timing:**
No limit

**Learning outcomes:**
The student is able to teach and/or supervise.

**Course objectives:**
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

**Contents:**
- Teaching and supervision

**Learning activities and teaching methods:**
Depending on duties.

**Prerequisites and co-requisites:**
Must have at least 2 ECTS University pedagogic or equivalent training.

**Assessment methods and criteria:**
- Grading:
  Pass / fail

**Person responsible:**
Head of teaching in the unit.

---

**046001J: Medicine, thesis, 0 op**

**Voimassaolo:** 01.08.2005 -

**Opiskeluomo:** Post-graduate Studies

**Laji:** Defence of the Ph. D. thesis

**Vastuuysikkö:** Medicine

**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)

**Opintokohteen kielet:** English

Ei opintojaksokuvauksia.

---

**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -

**Opiskeluomo:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 01.08.2011
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksonakua.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

- 450023J Research Plan and Seminar, Seminar 1.0 op
- 460023J Research Plan and Seminar, Seminar 1.0 op
- 780614J Research Plan and Seminar, seminar 1.0 op
- 793612J Research Plan and Seminar, seminar 1.0 op
- 816624J Research Plan and Seminar, seminar 1.0 op
- 771608J Research Plan and Seminar, Seminar 1.0 op
- 800703J Research Plan and Seminar, Seminar 1.0 op
- 694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
- 694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
- 694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
- 693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
- 693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
- 682367J Research Plan and Seminar, Seminar (English) 1.0 op
- 687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
- 687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
- 683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
- 683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
- 687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
- 700447J Research Plan and Seminar, Seminar (History) 1.0 op
- 700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
- 694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
- 722001J Research plan and seminar, seminar 1.0 op
- 419115J Research plan and seminar, seminar 1.0 op
- 046034J Research plan and seminar, seminar 1.0 op
- 520023J Research Plan and Seminar, Seminar 1.0 op
- 522023J Research Plan and Seminar, Seminar 1.0 op
- 550023J Research Plan and Seminar, Seminar 1.0 op
- 419115J Research plan and seminar, seminar 1.0 op
- 766692J Research Plan and Seminar 1.0 op
- 480023J Research Plan and Seminar, Seminar 1.0 op
- 470023J Research Plan and Seminar, Seminar 1.0 op
- 521023J Research Plan and Seminar, Seminar 1.0 op
- 748617J Research Plan and Seminar, Seminar 1.0 op
- 750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

- 800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintokaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory  

920004J-01: Research Plan and Seminar, Research Plan, 3 op  
Opiskelumuoto: Post-graduate Studies  
Laji: Partial credit  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Ei opintojakoksuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op  
Voimassaolo: 01.08.2013 - 31.07.2014  
Opiskelumuoto: Post-graduate Studies  
Laji: Partial credit  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J  Teaching Tasks  0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintokaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:
Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;
Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojakoksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voi massaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 01.08.2012
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011 who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakson kokonaispisteitä.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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<td>750662J</td>
<td>Research plan seminar</td>
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Ei opintojaksojokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksoakuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J  Teaching Tasks  0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksojoukkoa.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take
the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical
problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences.
Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the
relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral
training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the
course before the end of the second year.
All doctoral students
registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new
requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the
new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
  Opiskelumuoto: Post-graduate Studies
  Lajit: Partial credit
  Vastuuysikkö: University of Oulu Graduate School, UniOGS
  Arvostelu: 1 - 5, pass, fail
  Opintokohteen kielet: Finnish

  Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
  Voimassaolo: 01.08.2013 - 31.07.2014
  Opiskelumuoto: Post-graduate Studies
  Lajit: Partial credit
  Vastuuysikkö: University of Oulu Graduate School, UniOGS
  Arvostelu: 1 - 5, pass, fail
### Opintokohteen kielet: Finnish

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*Ei opintojakosokuvauksia.*

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### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

### Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintokaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kiele: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 - 31.12.2012

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:** 2 ECTS credits

**Language of instruction:** English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:** 4 ECTS credits

**Language of instruction:** English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

**All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.**
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

*Part one:*
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

*Part two:*
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

Compulsory

**920004J-01: Research Plan and Seminar, Research Plan, 3 op**
- **Voimassaolo:** 01.08.2012 - 31.12.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kiele:** Finnish

Ei opintojakson kohde.

**920004J-02: Research Plan and Seminar, seminar, 1 op**
- **Voimassaolo:** 01.08.2013 - 31.07.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
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<tr>
<td>750662J</td>
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Ei opintojakosokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish
Leikkaavuudet:

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<th>Credits</th>
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaalo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaalo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one: (920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two: (920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
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470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student’s ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakosokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohteen kielet: Finnish

### Leikkaavuudet:

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<tr>
<td>750662J</td>
<td>Research plan seminar</td>
<td>1.0 op</td>
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Ei opintojaksokuvauksia.

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### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

### Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-no-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kiele: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakoksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The **obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The **optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
92002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
**Learning outcomes:**
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
The course includes two parts:

**Part one:**
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, written and oral presentations.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**
Background literature of own research field.

**Recommended or required reading:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research Plan Seminar.

**Assessment methods and criteria:**
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**
Pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

**Compulsory**

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**Voimassaolo:**
- 920004J-02: 01.08.2013 - 31.07.2014

**Opiskelumuoto:**
- Post-graduate Studies

**Laji:**
- Partial credit

**Vastuuysikkö:**
- University of Oulu Graduate School, UniOGS

**Arvostelu:**
- 1 - 5, pass, fail

**Opintokohteen kielet:**
- Finnish

Ei opintojakson kuvauksia.
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
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419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

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920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kieleet: Finnish

Ei opintojaksonkuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohde: Finnish

Ei opintojakso kokua.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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Ei opintojakosokuvauksia.

**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
Leikkaavuudet:  

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op
Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojakosokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
**Learning outcomes:**
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
The course includes two parts:

**Part one:**
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, written and oral presentations.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**
Background literature of own research field.

**Recommended or required reading:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

**Assessment methods and criteria:**
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**
Pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

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**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

- **Voimassaolo:** 01.08.2012 - 31.12.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kielet:** Finnish

  Ei opintojakosokuvauksia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

- **Voimassaolo:** 01.08.2013 - 31.07.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
### Opintokohteen kielet:
Finnish

### Leikkaavuudet:

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Ei opintojaksokuvauksia.

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### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintokaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 31.12.2011
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law.
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 92004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohde: Finnish

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Ei opintojakskuvauksia.

### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohde:** Finnish  

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskeluoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojakso jokuucsia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskeluoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:  
Evaluation of progress reports and plans.  
Grading:  
pass / fail  
Person responsible:  
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry  
Opintokohteen kielet: English

ECTS Credits:  
1 ECTS credit  
Language of instruction:  
English  
Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training. 
Learning outcomes:  
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life. 
Contents:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.  
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).  
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information. 
Mode of delivery:  
lectures, discussions and networking.  
Learning activities and teaching methods:  
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.  
Prerequisites and co-requisites:  
The student must have been admitted to the University of Oulu Graduate School.  
Recommended optional programme components:

Recommended or required reading:  
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.  
Assessment methods and criteria:  
Participation in lectures and discussions .  
Grading:  
pass/fail  
Person responsible:  
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

**Voimassaolo:** 01.08.2012 - 31.12.2014
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

**All doctoral students**
registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakosokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
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Ei opintojaksojokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English
ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opettajat: Jarmo Pulkkinen 
Opintokohteen kielet: Finnish

ECTS Credits: 
2 ECTS credit

Language of instruction: 
English/Finnish

Timing: 
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes: 
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents: 
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery: 
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods: 
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites: 
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading: 
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading: 
pass/fail

Person responsible: 
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish

ECTS Credits: 
4 ECTS credits

Language of instruction: 
English

Timing: 
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; the presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksonkuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
## Opintokohteen kielet:
Finnish

## Leikkaavuudet:

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Ei opintojakokuvauksia.

### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohteen kielet: Finnish

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<tr>
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<td>Research plan seminar</td>
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Ei opintojaksokuvauksia.

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**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

#### Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:  
Evaluation of progress reports and plans.

Grading:  
pass / fail

Person responsible:  
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:  
1 ECTS credit

Language of instruction:  
English

Timing:  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:  
*After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.*

Contents:  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:  
lectures, discussions and networking.

Learning activities and teaching methods:  
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:  
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:  
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:  
Participation in lectures and discussions .

Grading:  
pass/fail

Person responsible:  
Coordinators of the University of Oulu Graduate School
92002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opettajat: Jarmo Pulkkinen 
Opintokohteen kielet: Finnish 

ECTS Credits: 
2 ECTS credit 
Language of instruction: 
English/Finnish 
Timing: 
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies. 
Learning outcomes: 
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research. 
Contents: 
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society. 
Mode of delivery: 
lectures (16 h.), guest lectures (6 h.), group work, and seminar. 
Learning activities and teaching methods: 
Regular attendance of lectures, participation in group work and oral presentation. 
Prerequisites and co-requisites: 
The student must have been admitted to the University of Oulu Graduate School. 
Recommended or required reading: 
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law 
Grading: 
pass/fail 
Person responsible: 
Jarmo Pulkkinen 

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish 

ECTS Credits: 
4 ECTS credits 
Language of instruction: 
English 
Timing: 
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year. 
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohde: Finnish

Ei opintojaksojokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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Ei opintojaksokuvauksia.

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**920006J: Teaching Tasks, 4 op**

**Voi massa olo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**  
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojakosokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law.
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how
to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral
training.

Contents:
The course includes two parts:

**Part one:**
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans.
The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its
recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral
Training Committee;

**Part two:**
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision
following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to
senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-
up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s
Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the
student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful
completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

- **Voimassaolo:** 01.08.2012 - 31.12.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kielet:** Finnish

  *Ei opintojakosokuvauksia.*

**920004J-02: Research Plan and Seminar, seminar, 1 op**

- **Voimassaolo:** 01.08.2013 - 31.07.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
### Opintokohteen kielet:
Finnish

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**Ei opintojakokuvauksia.**

### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

### Leikkaavuudet:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credits</th>
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<tr>
<td>800702J</td>
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

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046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksojakuvausia.

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920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
**Assessment methods and criteria:**
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 01.08.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
- Opiskelumuoto: Post-graduate Studies
- Laji: Partial credit
- Vastuuysikkö: University of Oulu Graduate School, UniOGS
- Arvostelu: 1 - 5, pass, fail
- Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
- Voimassaolo: 01.08.2013 - 31.07.2014
- Opiskelumuoto: Post-graduate Studies
- Laji: Partial credit
- Vastuuysikkö: University of Oulu Graduate School, UniOGS
- Arvostelu: 1 - 5, pass, fail
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op

Ei opintojaksokuvauksia.
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria: 
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits: 
1 ECTS credit

Language of instruction: 
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes: 
After the course the student knows about: the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. 
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: 
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. 

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J  Research Plan and Seminar, Seminar  1.0 op
460023J  Research Plan and Seminar, Seminar  1.0 op
780614J  Research Plan and Seminar, seminar  1.0 op
793612J  Research Plan and Seminar, seminar  1.0 op
816624J  Research Plan and Seminar, seminar  1.0 op
771608J  Research Plan and Seminar, Seminar  1.0 op
800703J  Research Plan and Seminar, Seminar  1.0 op
694789J  Research Plan and Seminar, Seminar (Logopedics)  1.0 op
694642J  Research Plan and Seminar, Seminar (Information Studies)  1.0 op
694935J  Research Plan and Seminar, Seminar (Finnish Language)  1.0 op
693460J  Research Plan and Seminar, Seminar (German Language and Culture)  1.0 op
693682J  Research Plan and Seminar, Seminar (Swedish Language)  1.0 op
682367J  Research Plan and Seminar, Seminar (English)  1.0 op
687239J  Research Plan and Seminar, Seminar (Cultural Anthropology)  1.0 op
687358J  Research Plan and Seminar, Seminar (Archaeology)  1.0 op
683496J  Research Plan and Seminar, Seminar (North Saami)  1.0 op
683658J  Research Plan and Seminar, Seminar (Inari Saami)  1.0 op
687170J  Research Plan and Seminar, Seminar (Literature)  1.0 op
700447J  Research Plan and Seminar, Seminar (History)  1.0 op
700122J  Research Plan and Seminar, Seminar (History of Science and Ideas)  1.0 op
694521J  Research Plan and Seminar, Seminar (Science Communication)  1.0 op
722001J  Research plan and seminar, seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
046034J  Research plan and seminar, seminar  1.0 op
520023J  Research Plan and Seminar, Seminar  1.0 op
522023J  Research Plan and Seminar, Seminar  1.0 op
550023J  Research Plan and Seminar, Seminar  1.0 op
419115J  Research plan and seminar, seminar  1.0 op
766692J  Research Plan and Seminar  1.0 op
480023J  Research Plan and Seminar, Seminar  1.0 op
470023J  Research Plan and Seminar, Seminar  1.0 op
521023J  Research Plan and Seminar, Seminar  1.0 op
748617J  Research Plan and Seminar, Seminar  1.0 op
750662J  Research plan seminar  1.0 op

Ei opintojakoksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

800702J  Teaching Tasks  0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielel: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohde: Research Plan and Seminar, Seminar

**Leikkaavuudet:**

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Ei opintojaksokuvauksia.

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**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohde:** Research Plan and Seminar, Seminar

**Leikkaavuudet:**

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:

- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaalo: 01.08.2005 -
Opiskeluoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuksikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaalo: 01.08.2012 -
Opiskeluoto: Post-graduate Studies
Laji: Course
Vastuuksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voiomassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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Ei opintojaksojakuvausia.

**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

| 800702J Teaching Tasks | 0.0 op |
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksoon vaikuttaa.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Optima, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
92002J: Research ethics for doctoral students, 2 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksonkuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohteen kielet: Finnish

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Ei opintojaksokuvauksia.

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### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuksikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

### Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law.
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(92004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(92004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiellet: Finnish

Ei opintojaksookuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Ei opintojakokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J  Teaching Tasks  0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintokaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about
the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The **obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The **optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksoaktuuksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassainto: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail


920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J  Teaching Tasks  0.0 op
**ECTS Credits:**
Check the study requirements defined by your major subject.

**Language of instruction:**
Language of instruction.

**Timing:**
No limit

**Learning outcomes:**
The student is able to teach and/or supervise.

**Course objectives:**
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

**Contents:**
* Teaching and supervision

**Learning activities and teaching methods:**
Depending on duties.

**Prerequisites and co-requisites:**
Must have at least 2 ECTS University pedagogic or equivalent training.

**Assessment methods and criteria:**
- Grading:
  Pass / fail

**Person responsible:**
Head of teaching in the unit.

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**046001J: Medicine, thesis, 0 op**

**Voimassaolo:** 01.08.2005 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Defence of the Ph. D. thesis

**Vastuuyskikkö:** Medicine

**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)

**Opintokohteen kielet:** English

Ei opintojaksokuvauksia.

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**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuyskikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
92002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarno Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarno Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielel: Finnish

Ei opintojakosokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksoyksikoksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or
after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information
regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral
studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted
to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate
school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the
doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate
School and the research environment expect from the students; Procedures for addressing and redressing problems
related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel,
Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.
U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition;
transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web
addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in ToolBox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikko: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikko: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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Ei opintojakokuvauksia.

### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op
Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria: Evaluation of progress reports and plans.
Grading: pass / fail
Person responsible: Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits: 1 ECTS credit
Language of instruction: English

Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery: lectures, discussions and networking.

Learning activities and teaching methods: obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading: Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: Participation in lectures and discussions.
Grading: pass/fail
Person responsible: Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohde kiele: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voi massaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksonkuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 01.08.2012
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielel: Finnish

Ei opintojaksojoukkoa.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
  800702J  Teaching Tasks  0.0 op
ECTS Credits: 
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- * Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskeluoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksojoukkoa.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskeluoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish  
Leikkaavuudet:

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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksovalvonta.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The **obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The **optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakoksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J    Teaching Tasks    0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

**Language of instruction:**
Language of instruction.

**Timing:**
No limit

**Learning outcomes:**
The student is able to teach and/or supervise.

**Course objectives:**
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

**Contents:**
* Teaching and supervision

**Learning activities and teaching methods:**
Depending on duties.

**Prerequisites and co-requisites:**
Must have at least 2 ECTS University pedagogic or equivalent training.

**Assessment methods and criteria:**
- Grading:
  Pass / fail

**Person responsible:**
Head of teaching in the unit.

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**046001J: Medicine, thesis, 0 op**

**Voimassaolo:** 01.08.2005 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Defence of the Ph. D. thesis

**Vastuuysikkö:** Medicine

**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)

**Opintokohteen kielet:** English

Ei opintojaksokuvauksia.

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**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakosokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikko: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikko: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

**Part one:**
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

**Compulsory**

920004J-01: Research Plan and Seminar, Research Plan, 3 op

- **Voimassaolo:** 01.08.2012 - 31.12.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohteen kiele:** Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

- **Voimassaolo:** 01.08.2013 - 31.07.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>450023J</td>
<td>Research Plan and Seminar, Seminar</td>
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<td>460023J</td>
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<tr>
<td>780614J</td>
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<td>Research Plan and Seminar, Seminar (Logopedics)</td>
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<td>Research Plan and Seminar, Seminar (Information Studies)</td>
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<td>Research Plan and Seminar, Seminar (Finnish Language)</td>
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<td>Research Plan and Seminar, Seminar (Literature)</td>
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<td>Research Plan and Seminar, Seminar</td>
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<td>Research plan and seminar, seminar</td>
<td>1.0 op</td>
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<td>480023J</td>
<td>Research Plan and Seminar, Seminar</td>
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<td>470023J</td>
<td>Research Plan and Seminar, Seminar</td>
<td>1.0 op</td>
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<td>521023J</td>
<td>Research Plan and Seminar, Seminar</td>
<td>1.0 op</td>
</tr>
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<td>748617J</td>
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<td>1.0 op</td>
</tr>
<tr>
<td>750662J</td>
<td>Research plan seminar</td>
<td>1.0 op</td>
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Ei opintojaksonkuvauksia.
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English
ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Persons, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opettajat: Jarmo Pulkkinen 
Opintokohteen kielet: Finnish 

ECTS Credits: 
2 ECTS credit 
Language of instruction: 
English/Finnish 
Timing: 
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take 
the course at the beginning of the doctoral studies. 
Learning outcomes: 
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical 
problems relating to different fields and stages of research. 
Contents: 
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. 
Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the 
relation between science community and wider society. 
Mode of delivery: 
lectures (16 h.), guest lectures (6 h.), group work, and seminar. 
Learning activities and teaching methods: 
Regular attendance of lectures, participation in group work and oral presentation. 
Prerequisites and co-requisites: 
The student must have been admitted to the University of Oulu Graduate School. 
Recommended or required reading: 
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law 
Grading: 
pass/fail 
Person responsible: 
Jarmo Pulkkinen 

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish 

ECTS Credits: 
4 ECTS credits 
Language of instruction: 
English 
Timing: 
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral 
training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the 
course before the end of the second year. 
All doctoral students 
registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011 , but who wish to follow the new 
requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the 
new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory
920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohde: Research Plan and Seminar, Seminar

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682387J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohde: Research Plan and Seminar

Leikkaavuudet:

800702J Teaching Tasks 0.0 op
**ECTS Credits:**
Check the study requirements defined by your major subject.

**Language of instruction:**
Language of instruction.

**Timing:**
No limit

**Learning outcomes:**
The student is able to teach and/or supervise.

**Course objectives:**
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

**Contents:**
* Teaching and supervision

**Learning activities and teaching methods:**
Depending on duties.

**Prerequisites and co-requisites:**
Must have at least 2 ECTS University pedagogic or equivalent training.

**Assessment methods and criteria:**
- Grading:
  Pass / fail

**Person responsible:**
Head of teaching in the unit.

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**356001J: Health Sciences, thesis, 0 op**

**Voimassaolo:** 01.08.2005 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Defence of the Ph. D. thesis

**Vastuuysikkö:** Institute of Health Sciences

**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)

**Opintokohteen kielet:** Finnish

Ei opintokaksokuvauksia.

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**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojakosokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

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920004J-02: Research Plan and Seminar, seminar, 1 op

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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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<td>800702J</td>
<td>Teaching Tasks 0.0 op</td>
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ECTS Credits: 
Check the study requirements defined by your major subject.

Language of instruction: 
Language of instruction.

Timing: 
No limit

Learning outcomes: 
The student is able to teach and/or supervise.

Course objectives: 
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents: 
* Teaching and supervision

Learning activities and teaching methods: 
Depending on duties.

Prerequisites and co-requisites: 
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria: 
- 

Grading: 
Pass / fail

Person responsible: 
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuysikkö: Institute of Health Sciences

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits: 
1 ECTS

Language of instruction: 
Language of meeting as appropriate, progress reports in English or Finnish.

Timing: 
Once per year

Learning outcomes: 
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives: 
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents: 
Written and oral presentation reports and plans.

Learning activities and teaching methods: 
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

**Voimassaolo:** 01.08.2011 - 
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

**Voimassaolo:** 01.08.2012 - 31.12.2014
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

**All doctoral students** registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
**Learning outcomes:**
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
The course includes two parts:

**Part one:**
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, written and oral presentations.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**
Background literature of own research field.

**Recommended or required reading:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

**Assessment methods and criteria:**
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**
Pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

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**Compulsory**

**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Partial credit
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

Ei opintojaksojokuvauksia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

**Voimassaolo:** 01.08.2013 - 31.07.2014
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Partial credit
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
### Opintokohteen kielet
Finnish

### Leikkaavuudet:

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Ei opintojakokuvauksia.

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### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

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Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksovälia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 01.08.2012
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law.
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
**Learning outcomes:**

After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**

The course includes two parts:

**Part one:**

(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**

(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**

Personal work, written and oral presentations.

**Learning activities and teaching methods:**

Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**

The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**

Background literature of own research field.

**Recommended or required reading:**

Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

**Assessment methods and criteria:**

The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**

Pass / fail

**Person responsible:**

Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

**Compulsory**

**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

*Opiskelumuoto:* Post-graduate Studies  
*Laji:* Partial credit  
*Vastuuysikkö:* University of Oulu Graduate School, UniOGS  
*Arvostelu:* 1 - 5, pass, fail  
*Opintokohdeent kielet:* Finnish

Ei opintojakosokuvauksia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

*Voimassaolo:* 01.08.2013 - 31.07.2014  
*Opiskelumuoto:* Post-graduate Studies  
*Laji:* Partial credit  
*Vastuuysikkö:* University of Oulu Graduate School, UniOGS  
*Arvostelu:* 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojakoksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

800703J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikko: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikko: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria: Evaluation of progress reports and plans.
Grading: pass / fail
Person responsible: Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction: English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohde:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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920004J: Research Plan and Seminar, 4 op

**Voimassaolo:** 01.08.2012 - 31.12.2014
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohde:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Lahti: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakoksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Lahti: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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<th>Credits</th>
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<td>800702J</td>
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voi massaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuyksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.). The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

**Part one:**
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

**Compulsory**

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojakokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohteen kielet:
Finnish

### Leikkaavuudet:

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Ei opintojakokuvauksia.

### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

### Leikkaavuudet:

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ECTS Credits: 
Check the study requirements defined by your major subject.

Language of instruction: 
Language of instruction.

Timing: 
No limit

Learning outcomes: 
The student is able to teach and/or supervise.

Course objectives: 
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents: 
* Teaching and supervision

Learning activities and teaching methods: 
Depending on duties.

Prerequisites and co-requisites: 
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria: 
- 

Grading: 
Pass / fail

Person responsible: 
Head of teaching in the unit.

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356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 - 
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

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920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 
1 ECTS

Language of instruction: 
Language of meeting as appropriate, progress reports in English or Finnish.

Timing: 
Once per year

Learning outcomes: 
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives: 
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents: 
Written and oral presentation reports and plans.

Learning activities and teaching methods: 
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Jarmo Pulkkinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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920004J: Research Plan and Seminar, 4 op

**Voimassaolo:** 01.08.2012 - 31.12.2014

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

**All doctoral students** registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakosokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

Ei opintojaksokuvauksia.
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- *Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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Ei opintojaksokuvauksia.

**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikko:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**  
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading: Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintokaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaalo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about
the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics:
Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics:
Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakosokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student’s ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojakokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:  
Check the study requirements defined by your major subject.

Language of instruction:  
Language of instruction.

Timing:  
No limit

Learning outcomes:  
The student is able to teach and/or supervise.

Course objectives:  
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:  
- Teaching and supervision

Learning activities and teaching methods:  
Depending on duties.

Prerequisites and co-requisites:  
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:  
- 

Grading:  
Pass / fail

Person responsible:  
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kiele: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikko: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikko: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakson kokonaisaikoja.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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<tr>
<th>Course Code</th>
<th>Description</th>
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<td>460023J</td>
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<td>750662J</td>
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Ei opintojakoksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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<th>Description</th>
<th>Credits</th>
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<td>800702J</td>
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojakosokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 92004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 92004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

92004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakokuvauksia.

92004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
## Opintokohteen kielet:
Finnish

## Leikkaavuudet:

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Ei opintojaksokuvauksia.

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**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

## Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

550001J: Industrial Engineering and Management, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Industrial Engineering and Management
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakskokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

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470001J: Process Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Process and Environmental Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish
Ei opintojaksokuvauksia.

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920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluating progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

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920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksojukuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

480001J: Environmental Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Process and Environmental Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksoikkuvuusia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions.

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohde: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohde: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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Ei opintojakson kuvaus.
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

450001J: Architecture, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Architecture
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
**920002J: Research ethics for doctoral students, 2 op**

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opettajat: Jarmo Pulkkinen 
Opintokohteen kielet: Finnish 

**ECTS Credits:** 
2 ECTS credit 

**Language of instruction:** 
English/Finnish 

**Timing:** 
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies. 

**Learning outcomes:** 
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research. 

**Contents:** 
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society. 

**Mode of delivery:** 
lectures (16 h.), guest lectures (6 h.), group work, and seminar. 

**Learning activities and teaching methods:** 
Regular attendance of lectures, participation in group work and oral presentation. 

**Prerequisites and co-requisites:** 
The student must have been admitted to the University of Oulu Graduate School. 

**Recommended or required reading:** 
Student should familiarize with the following chapter in **Toolbox of Research**: 1.4. Research ethics and the law 

**Grading:** 
pass/fail 

**Person responsible:** 
Jarmo Pulkkinen 

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**920004J: Research Plan and Seminar, 4 op**

Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish 

**ECTS Credits:** 
4 ECTS credits 

**Language of instruction:** 
English 

**Timing:** 
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year. 

All doctoral students registered in the University of Oulu Graduate School **who were awarded doctoral study rights before 1st August 2011**, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laij: Partial credit
Vastuuysikko: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakosokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laij: Partial credit
Vastuuysikko: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohteen kielet:
Finnish

### Leikkaavuudet:

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Ei opintojaksojokuvauksia.

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### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail

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Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuysikkö: Department of Mechanical Engineering

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

**Part one:**
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. **Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.**

Compulsory

**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

- **Voimassaolo:** 01.08.2012 - 31.12.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
- **Opintokohde kielet:** Finnish

  Ei opintojaksokuvausia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

- **Voimassaolo:** 01.08.2013 - 31.07.2014
- **Opiskelumuoto:** Post-graduate Studies
- **Laji:** Partial credit
- **Vastuuysikkö:** University of Oulu Graduate School, UniOGS
- **Arvostelu:** 1 - 5, pass, fail
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Ei opintojakson kuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
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<td>800702J</td>
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
 obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksookuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies 
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presention of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kieleet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
 obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
**920002J: Research ethics for doctoral students, 2 op**

**Voimassaolo:** 01.08.2011 -
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opettajat:** Jarmo Pulkkinen
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014
**Opiskelumuoto:** Post-graduate Studies
**Laji:** Course
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS
**Arvostelu:** 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

**All doctoral students** registered in the University of Oulu Graduate School **who were awarded doctoral study rights before 1st August 2011**, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojakosokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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<td>748617J</td>
<td>Research Plan and Seminar</td>
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</tr>
<tr>
<td>750662J</td>
<td>Research plan seminar</td>
<td>1.0 op</td>
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**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**  
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>800702J</td>
<td>Teaching Tasks</td>
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</table>
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaajo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Perseonec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:
Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;
Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

450023J Research Plan and Seminar, Seminar 1.0 op
460023J Research Plan and Seminar, Seminar 1.0 op
780614J Research Plan and Seminar, seminar 1.0 op
793612J Research Plan and Seminar, seminar 1.0 op
816624J Research Plan and Seminar, seminar 1.0 op
771608J Research Plan and Seminar, Seminar 1.0 op
800703J Research Plan and Seminar, Seminar 1.0 op
694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
682367J Research Plan and Seminar, Seminar (English) 1.0 op
687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
700447J Research Plan and Seminar, Seminar (History) 1.0 op
700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
722001J Research plan and seminar, seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
046034J Research plan and seminar, seminar 1.0 op
520023J Research Plan and Seminar, Seminar 1.0 op
522023J Research Plan and Seminar, Seminar 1.0 op
550023J Research Plan and Seminar, Seminar 1.0 op
419115J Research plan and seminar, seminar 1.0 op
766692J Research Plan and Seminar 1.0 op
480023J Research Plan and Seminar, Seminar 1.0 op
470023J Research Plan and Seminar, Seminar 1.0 op
521023J Research Plan and Seminar, Seminar 1.0 op
748617J Research Plan and Seminar, Seminar 1.0 op
750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 
  Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaalo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits: 1 ECTS credit
Language of instruction: English

Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery: lectures, discussions and networking.

Learning activities and teaching methods: obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading: Students should familiarize themselves with the contents of the University of Oulu Graduate School website.

Assessment methods and criteria: Participation in lectures and discussions.

Grading: pass/fail

Person responsible: Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksojokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Research Plan and Seminar

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<th>Course Title</th>
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<td>750662J</td>
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Ei opintojaksokuvauksia.

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### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

### Leikkaavuudet:

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ECTS Credits:  
Check the study requirements defined by your major subject.

Language of instruction:  
Language of instruction.

Timing:  
No limit

Learning outcomes:  
The student is able to teach and/or supervise.

Course objectives:  
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:  
* Teaching and supervision

Learning activities and teaching methods:  
Depending on duties.

Prerequisites and co-requisites:  
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:  
-  

Grading:  
Pass / fail

Person responsible:  
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credits
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
 Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojakson kokeelia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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Ei opintojakoslukuvausia.

### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**  
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:

* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.  
**Grading:**  
pass / fail  
**Person responsible:**  
The Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry  
**Opintokohteen kielet:** English  

**ECTS Credits:**  
1 ECTS credit  
**Language of instruction:**  
English  
**Timing:**  
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.  

**Learning outcomes:**  
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.  

**Contents:**  
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.  
**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).  
**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.  

**Mode of delivery:**  
lectures, discussions and networking.  
**Learning activities and teaching methods:**  
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.  
**Prerequisites and co-requisites:**  
The student must have been admitted to the University of Oulu Graduate School.  

**Recommended optional programme components:**  

**Recommended or required reading:**  
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.  

**Assessment methods and criteria:**  
Participation in lectures and discussions.  
**Grading:**  
pass/fail  
**Person responsible:**  
Coordinators of the University of Oulu Graduate School
**920002J: Research ethics for doctoral students, 2 op**

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

**ECTS Credits:**
2 ECTS credit

**Language of instruction:**
English/Finnish

**Timing:**
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

**Learning outcomes:**
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

**Contents:**
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

**Mode of delivery:**
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

**Learning activities and teaching methods:**
Regular attendance of lectures, participation in group work and oral presentation.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended or required reading:**
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

**Grading:**
pass/fail

**Person responsible:**
Jarmo Pulkkinen

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**920004J: Research Plan and Seminar, 4 op**

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

**ECTS Credits:**
4 ECTS credits

**Language of instruction:**
English

**Timing:**
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

**All doctoral students**
registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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</tr>
<tr>
<td>750662J</td>
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Ei opintojaksojoukuksia.

**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Mechanical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credits
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
920004J-01 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
920004J-02 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  
**Leikkaavuudet:**

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<td>816624J</td>
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*Ei opintojaksokuvauksia.*
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laij: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Electrical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laij: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.
Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

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920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Electrical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The **obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The **optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
**Learning outcomes:**
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

**Contents:**
The course includes two parts:

**Part one:**
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

**Part two:**
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

**Mode of delivery:**
Personal work, written and oral presentations.

**Learning activities and teaching methods:**
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

**Target group:**
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

**Prerequisites and co-requisites:**
Background literature of own research field.

**Recommended or required reading:**
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

**Assessment methods and criteria:**
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

**Grading:**
Pass / fail

**Person responsible:**
Supervisor, follow-up group and doctoral training committee. *Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.*

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**920004J-01: Research Plan and Seminar, Research Plan, 3 op**

**Voimassaolo:** 01.08.2012 - 31.12.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Ei opintojaksokuvausia.

**920004J-02: Research Plan and Seminar, seminar, 1 op**

**Voimassaolo:** 01.08.2013 - 31.07.2014  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Partial credit  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail
Opintokohde: Research Plan and Seminar

Leikkaavuudet:

- 450023J Research Plan and Seminar, Seminar 1.0 op
- 460023J Research Plan and Seminar, Seminar 1.0 op
- 780614J Research Plan and Seminar, seminar 1.0 op
- 793612J Research Plan and Seminar, seminar 1.0 op
- 816624J Research Plan and Seminar, seminar 1.0 op
- 771608J Research Plan and Seminar, Seminar 1.0 op
- 800703J Research Plan and Seminar, Seminar 1.0 op
- 694789J Research Plan and Seminar, Seminar (Logopedics) 1.0 op
- 694642J Research Plan and Seminar, Seminar (Information Studies) 1.0 op
- 694935J Research Plan and Seminar, Seminar (Finnish Language) 1.0 op
- 693460J Research Plan and Seminar, Seminar (German Language and Culture) 1.0 op
- 693682J Research Plan and Seminar, Seminar (Swedish Language) 1.0 op
- 682367J Research Plan and Seminar, Seminar (English) 1.0 op
- 687239J Research Plan and Seminar, Seminar (Cultural Anthropology) 1.0 op
- 687358J Research Plan and Seminar, Seminar (Archaeology) 1.0 op
- 683496J Research Plan and Seminar, Seminar (North Saami) 1.0 op
- 683658J Research Plan and Seminar, Seminar (Inari Saami) 1.0 op
- 687170J Research Plan and Seminar, Seminar (Literature) 1.0 op
- 700447J Research Plan and Seminar, Seminar (History) 1.0 op
- 700122J Research Plan and Seminar, Seminar (History of Science and Ideas) 1.0 op
- 694521J Research Plan and Seminar, Seminar (Science Communication) 1.0 op
- 722001J Research plan and seminar, seminar 1.0 op
- 419115J Research plan and seminar, seminar 1.0 op
- 046034J Research plan and seminar, seminar 1.0 op
- 520023J Research Plan and Seminar, Seminar 1.0 op
- 522023J Research Plan and Seminar, Seminar 1.0 op
- 550023J Research Plan and Seminar, Seminar 1.0 op
- 419115J Research plan and seminar, seminar 1.0 op
- 766692J Research Plan and Seminar 1.0 op
- 480023J Research Plan and Seminar, Seminar 1.0 op
- 470023J Research Plan and Seminar, Seminar 1.0 op
- 521023J Research Plan and Seminar, Seminar 1.0 op
- 748617J Research Plan and Seminar, Seminar 1.0 op
- 750662J Research plan seminar 1.0 op

Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohde: Research Plan and Seminar

Leikkaavuudet:

- 800702J Teaching Tasks 0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Electrical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksonkuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
920001J: Introduction to Doctoral Training, 1 op

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.  

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opettajat: Jarmo Pulkkinen 
Opintokohteen kielet: Finnish 

ECTS Credits: 2 ECTS credit 
Language of instruction: English/Finnish 
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies. 
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research. 
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society. 
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar. 
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation. 
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School. 
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law 
Grading: pass/fail 
Person responsible: Jarmo Pulkkinen 

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish 

ECTS Credits: 4 ECTS credits 
Language of instruction: English 
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year. 
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 92004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 92004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

92004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

92004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

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Ei opintojaksokuvauksia.

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**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Electrical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.

Assessment methods and criteria:
Evaluation of progress reports and plans.

**Grading:**
- pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coorninators of UniOGS.

---

**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
- 1 ECTS credit

**Language of instruction:**
- English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
- lectures, discussions and networking.

**Learning activities and teaching methods:**
- obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
- pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 
Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opettajat: Jarmo Pulkkinen 
Opintokohteen kielet: Finnish

ECTS Credits: 
2 ECTS credit 
Language of instruction: 
English/Finnish 
Timing: 
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies. 
Learning outcomes: 
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research. 
Contents: 
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society. 
Mode of delivery: 
lectures (16 h.), guest lectures (6 h.), group work, and seminar. 
Learning activities and teaching methods: 
Regular attendance of lectures, participation in group work and oral presentation. 
Prerequisites and co-requisites: 
The student must have been admitted to the University of Oulu Graduate School. 
Recommended or required reading: 
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law 
Grading: 
pass/fail 
Person responsible: 
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies 
Laji: Course 
Vastuuysikkö: University of Oulu Graduate School, UniOGS 
Arvostelu: 1 - 5, pass, fail 
Opintokohteen kielet: Finnish

ECTS Credits: 
4 ECTS credits 
Language of instruction: 
English 
Timing: 
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011 , but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksoalueita.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
## Opintokohteen kielet: Finnish

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Ei opintojaksokuvauksia.

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### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- 

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

521001J: Information Engineering, thesis, 0 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Computer Science and Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -  
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opettajat: Jarmo Pulkkinen  
Opintokohteen kielet: Finnish

ECTS Credits:  
2 ECTS credit  
Language of instruction:  
English/Finnish  
Timing:  
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.  
Learning outcomes:  
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.  
Contents:  
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.  
Mode of delivery:  
lectures (16 h.), guest lectures (6 h.), group work, and seminar.  
Learning activities and teaching methods:  
Regular attendance of lectures, participation in group work and oral presentation.  
Prerequisites and co-requisites:  
The student must have been admitted to the University of Oulu Graduate School.  
Recommended or required reading:  
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law  
Grading:  
pass/fail  
Person responsible:  
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: University of Oulu Graduate School, UniOGS  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish

ECTS Credits:  
4 ECTS credits  
Language of instruction:  
English  
Timing:  
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.  
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011 , but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:
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<td>800702J</td>
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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

522001J: Telecommunication Engineering, thesis, 0 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Electrical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohteen kielet:
Finnish

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**Ei opintojaksokuvauksia.**

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**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

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ECTS Credits: Check the study requirements defined by your major subject.

Language of instruction: Language of instruction.

Timing: No limit

Learning outcomes: The student is able to teach and/or supervise.

Course objectives: Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents: * Teaching and supervision

Learning activities and teaching methods: Depending on duties.

Prerequisites and co-requisites: Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria: -

Grading: Pass / fail

Person responsible: Head of teaching in the unit.

419105J: Doctoral thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Education
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojakosokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 1 ECTS

Language of instruction: Language of meeting as appropriate, progress reports in English or Finnish.

Timing: Once per year

Learning outcomes: The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.

Course objectives: Aiming to reflect own progress and plans of the doctoral training. Aiming to provide supplementary support for the doctoral training.

Contents: Written and oral presentation reports and plans.

Learning activities and teaching methods: Annual meetings.
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading:
pass/fail
Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskeluumo: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskeluumo: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
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Ei opintojaksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

800702J  Teaching Tasks  0.0 op
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

419105J: Doctoral thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Faculty of Education
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credit

Language of instruction: English/Finnish

Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading: Student should familiarize with the following chapter in *Toolbox of Research*: 1.4. Research ethics and the law

Grading: pass/fail

Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits

Language of instruction: English

Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student's Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojakoksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohde: Finnish

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**920006J: Teaching Tasks, 4 op**

**Voi massaolo:** 01.08.2012 - 31.07.2013

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohde:** Finnish

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</table>
**ECTS Credits:**
Check the study requirements defined by your major subject.

**Language of instruction:**
Language of instruction.

**Timing:**
No limit

**Learning outcomes:**
The student is able to teach and/or supervise.

**Course objectives:**
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

**Contents:**
* Teaching and supervision

**Learning activities and teaching methods:**
Depending on duties.

**Prerequisites and co-requisites:**
Must have at least 2 ECTS University pedagogic or equivalent training.

**Assessment methods and criteria:**
- Grading:
  Pass / fail

**Person responsible:**
Head of teaching in the unit.

---

**419105J: Doctoral thesis, 0 op**

**Voimassaolo:** 01.08.2005 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Defence of the Ph. D. thesis

**Vastuuysikkö:** Faculty of Education

**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)

**Opintokohteen kielet:** Finnish

Ei opintojaksokovauksia.

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**920007J: Follow-up Group Reporting and meetings, 1 op**

**Voimassaolo:** 01.08.2012 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**
1 ECTS

**Language of instruction:**
Language of meeting as appropriate, progress reports in English or Finnish.

**Timing:**
Once per year

**Learning outcomes:**
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

**Course objectives:**
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

**Contents:**
Written and oral presentation reports and plans.

**Learning activities and teaching methods:**
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coorninators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaalo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

- **Voimassaolo**: 01.08.2012 - 31.12.2014
- **Opiskelumuoto**: Post-graduate Studies
- **Laji**: Partial credit
- **Vastuuysikkö**: University of Oulu Graduate School, UniOGS
- **Arvostelu**: 1 - 5, pass, fail
- **Opintokohteen kiele**: Finnish

Ei opintojaksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

- **Voimassaolo**: 01.08.2013 - 31.07.2014
- **Opiskelumuoto**: Post-graduate Studies
- **Laji**: Partial credit
- **Vastuuysikkö**: University of Oulu Graduate School, UniOGS
- **Arvostelu**: 1 - 5, pass, fail
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### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

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**Leikkavaudet:**

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksojaukuksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuysikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry

Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credits

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

- Opiskelumuoto: Post-graduate Studies
- Laji: Partial credit
- Vastuuysikkö: University of Oulu Graduate School, UniOGS
- Arvostelu: 1 - 5, pass, fail
- Opintokohteen kiele: Finnish

Ei opintojakson kokauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

- Voimassaolo: 01.08.2013 - 31.07.2014
- Opiskelumuoto: Post-graduate Studies
- Laji: Partial credit
- Vastuuysikkö: University of Oulu Graduate School, UniOGS
- Arvostelu: 1 - 5, pass, fail
### Opintokohteen kielet: Finnish

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Ei opintojaksojoukuksia.

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**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

#### Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskeluoototo: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskeluoototo: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
pass / fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit

Language of instruction:
English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .

Grading:
pass/fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksojokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

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Ei opintojaksojokuvauksia.

**920006J: Teaching Tasks, 4 op**

**Voimassaolo:** 01.08.2012 - 31.07.2013

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaalo: 01.08.2005 -
Opiskeluoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuksikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaalo: 01.08.2012 -
Opiskeluoto: Post-graduate Studies
Laji: Course
Vastuuksikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8 h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.
Grading:
pass / fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 31.12.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohde: Finnish

Ei opintojaksojuonta.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohteen kielet:
Finnish

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Ei opintojakokuvauksia.

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**920006J: Teaching Tasks, 4 op**

**Voiomassalto:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.
Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.
Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 - 01.08.2011
Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how
to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral
training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans.
The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its
recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral
Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision
following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to
senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-
up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s
Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the
student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful
completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
	Opiskelumuoto: Post-graduate Studies
	Laji: Partial credit
	Vastuuysikkö: University of Oulu Graduate School, UniOGS
	Arvostelu: 1 - 5, pass, fail
	Opintokohteen kielel: Finnish

	Ei opintojaksojukuvausia.

920004J-02: Research Plan and Seminar, seminar, 1 op
	Voimassaolo: 01.08.2013 - 31.07.2014
	Opiskelumuoto: Post-graduate Studies
	Laji: Partial credit
	Vastuuysikkö: University of Oulu Graduate School, UniOGS
	Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
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Ei opintojaksoenvaikut.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria: Evaluation of progress reports and plans.
Grading: pass / fail
Person responsible: Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits: 1 ECTS credit
Language of instruction: English
Timing: The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes: After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents: The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu. The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.). The optional component covers the following topics: Formalities for foreign students from within and outside the E.U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery: lectures, discussions and networking.

Learning activities and teaching methods: obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components: Recommended or required reading: Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria: Participation in lectures and discussions .
Grading: pass/fail
Person responsible: Coordinators of the University of Oulu Graduate School.
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take
the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical
problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences.
Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the
relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral
training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the
course before the end of the second year.

All doctoral students
registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new
requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the
new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojakoksokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish

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Ei opintojaksokuvauksia.
ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
-

Grading:
Pass / fail

Person responsible:
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintokatsokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and everyday life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.
Learning activities and teaching methods:
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.
Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.
Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit

Language of instruction:
English/Finnish

Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits

Language of instruction:
English

Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1st August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kiele: Finnish

Ei opintojakosokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
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**Voimassaolo:** 01.08.2012 - 31.07.2013

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.
Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
- Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Institute of Health Sciences
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksojakuvausia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
1 ECTS

Language of instruction:
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:
Once per year

Learning outcomes:
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.
Course objectives:
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:
Written and oral presentation reports and plans.

Learning activities and teaching methods:
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.
Grading:
pass / fail
Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits:
1 ECTS credit
Language of instruction:
English
Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.
The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).
The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions .
Grading:
pass/fail
Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Ei opintojakokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

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Ei opintojakoksokuvauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

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ECTS Credits:  
Check the study requirements defined by your major subject.

Language of instruction:  
Language of instruction.

Timing:  
No limit

Learning outcomes:  
The student is able to teach and/or supervise.

Course objectives:  
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:  
* Teaching and supervision

Learning activities and teaching methods:  
Depending on duties.

Prerequisites and co-requisites:  
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:  
-

Grading:  
Pass / fail

Person responsible:  
Head of teaching in the unit.

046001J: Medicine, thesis, 0 op  
Voimassaolo: 01.08.2005 -
Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Medicine
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op  
Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training.
The student is able to reflect on his/her training.

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.
Assessment methods and criteria:
Evaluation of progress reports and plans.

Grading:
Pass / Fail

Person responsible:
Chair of the Follow-up Group and Coordinators of UniOGS.

920001J: Introduction to Doctoral Training, 1 op

Voi massaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Heli Ruotsalainen, Niina Timosaari-Hyry
Opintokohteen kielet: English

ECTS Credits: 1 ECTS credit

Language of instruction: English

Timing:
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

Learning outcomes:
After the course the student knows about the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

Contents:
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

The obligatory component addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

The optional component covers the following topics: Formalities for foreign students from within and outside the E. U; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

Mode of delivery:
lectures, discussions and networking.

Learning activities and teaching methods:
obligatory lectures and discussion, 7.5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended optional programme components:

Recommended or required reading:
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

Assessment methods and criteria:
Participation in lectures and discussions.

Grading:
Pass/Fail

Person responsible:
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits:
2 ECTS credit
Language of instruction:
English/Finnish
Timing:
The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.

Learning outcomes:
After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.

Contents:
Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.

Mode of delivery:
lectures (16 h.), guest lectures (6 h.), group work, and seminar.

Learning activities and teaching methods:
Regular attendance of lectures, participation in group work and oral presentation.

Prerequisites and co-requisites:
The student must have been admitted to the University of Oulu Graduate School.

Recommended or required reading:
Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law

Grading:
pass/fail

Person responsible:
Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:
4 ECTS credits
Language of instruction:
English
Timing:
All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.

All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
( 920004J-01 ) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
( 920004J-02 ) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op

Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakson kuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
### Opintokohteen kielet: Finnish

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</table>

Ei opintojaksokuvauksia.

### 920006J: Teaching Tasks, 4 op

**Voimassaolo:** 01.08.2012 - 31.07.2013  
**Opiskelumuoto:** Post-graduate Studies  
**Laji:** Course  
**Vastuuysikkö:** University of Oulu Graduate School, UniOGS  
**Arvostelu:** 1 - 5, pass, fail  
**Opintokohteen kielet:** Finnish  

Leikkaavuudet:

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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>800702J</td>
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</table>
ECTS Credits:  
Check the study requirements defined by your major subject.

Language of instruction:  
Language of instruction.

Timing:  
No limit

Learning outcomes:  
The student is able to teach and/or supervise.

Course objectives:  
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:  
* Teaching and supervision

Learning activities and teaching methods:  
Depending on duties.

Prerequisites and co-requisites:  
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:  

Grading:  
Pass / fail

Person responsible:  
Head of teaching in the unit.

520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Electrical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920007J: Follow-up Group Reporting and meetings, 1 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits:  
1 ECTS

Language of instruction:  
Language of meeting as appropriate, progress reports in English or Finnish.

Timing:  
Once per year

Learning outcomes:  
The student is able to report effectively on the plans and accomplishments of his/her training. The student is able to reflect on his/her training.

Course objectives:  
Aiming to reflect own progress and plans of the doctoral training.
Aiming to provide supplementary support for the doctoral training.

Contents:  
Written and oral presentation reports and plans.

Learning activities and teaching methods:  
Annual meetings.

Assessment methods and criteria:  

Evaluation of progress reports and plans.

**Grading:**
pass / fail

**Person responsible:**
Chair of the Follow-up Group and Coordinators of UniOGS.

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**920001J: Introduction to Doctoral Training, 1 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Post-graduate Studies

**Laji:** Course

**Vastuuysikkö:** University of Oulu Graduate School, UniOGS

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli Ruotsalainen, Niina Timosaari-Hyry

**Opintokohteen kielet:** English

**ECTS Credits:**
1 ECTS credit

**Language of instruction:**
English

**Timing:**
The course is held once in the spring and once in the autumn. All students whose doctoral study rights started on, or after 1 January 2012 must attend the course during their first year of doctoral training.

**Learning outcomes:**
*After the course the student knows about* the structure and practices of UniOGS, as well as practical information regarding the formalities, general requirements and opportunities, and services, essential to both their doctoral studies and every-day life.

**Contents:**
The course includes an obligatory component for all first-year doctoral students, and an optional component targeted to foreign students and Finnish students arriving from outside of Oulu.

**The obligatory component** addresses the following topics: Requirements for obtaining a doctoral degree; Graduate school structure, responsible persons/services, and bylaws/regulations; General procedures and time-line of the doctoral education; What students can expect from UniOGS and their research environment, and what the Graduate School and the research environment expect from the students; Procedures for addressing and redressing problems related to doctoral training. General instructions on the use of administrative data bases (Sole, ESS, Travel, Personec, Optima, Oodi, etc.).

**The optional component** covers the following topics: Formalities for foreign students from within and outside the EU; Legal services and taxes; Library services; E-mail and internet access; health & social services day-care, nutrition; transportation; sport activities; Student associations; Student cards; Grants and loans; Useful contact data and web addresses for further information.

**Mode of delivery:**
lectures, discussions and networking.

**Learning activities and teaching methods:**
obligatory lectures and discussion, 7,5 h; optional lectures and discussion, 8h; networking and personal study, 11 h.

**Prerequisites and co-requisites:**
The student must have been admitted to the University of Oulu Graduate School.

**Recommended optional programme components:**

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**Recommended or required reading:**
Students should familiarize themselves with the contents of the University of Oulu Graduate School web site.

**Assessment methods and criteria:**
Participation in lectures and discussions .

**Grading:**
pass/fail

**Person responsible:**
Coordinators of the University of Oulu Graduate School
920002J: Research ethics for doctoral students, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Jarmo Pulkkinen
Opintokohteen kielet: Finnish

ECTS Credits: 2 ECTS credits
Language of instruction: English/Finnish
Timing: The course unit is held once in the autumn (in English) and once in the spring (in Finnish). It is recommended to take the course at the beginning of the doctoral studies.
Learning outcomes: After the course the student is familiar with the ethical codes of research, and able to recognise and analyse ethical problems relating to different fields and stages of research.
Contents: Ethical theory and ethical problem solving. Professional ethics. Ethical problems characteristic to different sciences. Good scientific practice and procedures for handling misconduct and fraud in science. Ethical problems regarding the relation between science community and wider society.
Mode of delivery: lectures (16 h.), guest lectures (6 h.), group work, and seminar.
Learning activities and teaching methods: Regular attendance of lectures, participation in group work and oral presentation.
Prerequisites and co-requisites: The student must have been admitted to the University of Oulu Graduate School.
Recommended or required reading: Student should familiarize with the following chapter in Toolbox of Research: 1.4. Research ethics and the law
Grading: pass/fail
Person responsible: Jarmo Pulkkinen

920004J: Research Plan and Seminar, 4 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

ECTS Credits: 4 ECTS credits
Language of instruction: English
Timing: All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete part 1 of the course during their first year of doctoral training. Part 2 of the course must be completed within two years of starting the doctoral training. All part-time students must complete parts 1 & 2 of the course before the end of the second year.
All doctoral students registered in the University of Oulu Graduate School who were awarded doctoral study rights before 1 at August 2011, but who wish to follow the new requirements for the doctoral degrees established by UniOGS in Spring 2012 must complete part 1 of the course as part of their application to transfer to the new requirements. Part 2 of the course must be completed within one year of transferring to the new requirements.
Learning outcomes:
After the course the student knows how to develop and present a doctoral training plan and research progress in written and oral forms, and has learned how to critically discuss the research of others. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:
The course includes two parts:

Part one:
(920004J-01) 3 ECTS credits. The establishment and writing of the full doctoral training plan, which includes detailed research and study plans. The student should also include a brief outline of his/her career development plan; The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student’s Doctoral Training Follow-up Group. The plan is formally accepted by the student’s Doctoral Training Committee;

Part two:
(920004J-02) 1 ECTS credit. Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:
Personal work, written and oral presentations.

Learning activities and teaching methods:
Establishment and writing of the doctoral training plan, its written and oral presentation to the Doctoral Training Follow-up Group, and its eventual revision following the recommendations of the Doctoral Training Follow-up Group; presentation and discussion of the research plan, or the research progress, to senior scientists/professionals (Follow-up Group meeting) and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:
The student must have been granted study rights for doctoral training at the University of Oulu Graduate School and must have a Doctoral Training Follow-up Group.

Prerequisites and co-requisites:
Background literature of own research field.

Recommended or required reading:
Submission and approval of the full doctoral training plan by the doctoral training follow-up group; acceptance of the doctoral training plan by the student’s Doctoral Training Committee; public presentation of the research plan/results in a Research (Plan) Seminar.

Assessment methods and criteria:
The three study credits for the completion of part 1 are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student. The study credit for part 2 is awarded by the responsible person for the Field/Major, or a person designated by the latter, after the successful completion of the research plan seminar, or research seminar by the student.

Grading:
Pass / fail

Person responsible:
Supervisor, follow-up group and doctoral training committee. Part 2: Responsible persons of the relevant Majors/fields of doctoral studies.

Compulsory

920004J-01: Research Plan and Seminar, Research Plan, 3 op
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojakskokuvauksia.

920004J-02: Research Plan and Seminar, seminar, 1 op
Voimassaolo: 01.08.2013 - 31.07.2014
Opiskelumuoto: Post-graduate Studies
Laji: Partial credit
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

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Ei opintojakskokauksia.

920006J: Teaching Tasks, 4 op

Voimassaolo: 01.08.2012 - 31.07.2013
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Leikkaavuudet:

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ECTS Credits:
Check the study requirements defined by your major subject.

Language of instruction:
Language of instruction.

Timing:
No limit

Learning outcomes:
The student is able to teach and/or supervise.

Course objectives:
Aiming to reinforce the doctoral student's ability to teach and to support the construction of his/her teaching identity.

Contents:
* Teaching and supervision

Learning activities and teaching methods:
Depending on duties.

Prerequisites and co-requisites:
Must have at least 2 ECTS University pedagogic or equivalent training.

Assessment methods and criteria:
- Grading:
  Pass / fail

Person responsible:
Head of teaching in the unit.

520001J: Electrical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies
Laji: Defence of the Ph. D. thesis
Vastuuysikkö: Department of Electrical Engineering
Arvostelu: suor (pass), oiv (excellent), khy (excellent)
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

Tutkintorakenteisiin kuulumattomien opintokokonaisuuksien ja -jaksojen kuvaus

722130J: ACC, Major Subject Studies, 0 - 10 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722131J: ACC, Major Subject Studies, Financial Accounting, 0 - 10 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722132J: ACC, Major Subject Studies, Management Accounting, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722133J: ACC, Major Subject Studies, Special Issue, 0 - 10 op
Voimassaolo: 01.10.1950 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722100J: ACC, Research Methodology, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722101J: ACC, Research Methodology, Research Methods, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.
722331J: ECON, Major Subject Studies, Macroeconomic Theory, 0 - 10 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722330J: ECON, Major Subject Studies, Microeconomic Theory, 0 - 10 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722332J: ECON, Major Subject Studies, Special Issues, 0 - 10 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722300J: ECON, Research Methodology, Methodology and History of Economic Thought, 0 - 10 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722301J: ECON, Research Methodology, Research Methods, 0 - 10 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
722930J: FIN, Major Subject Studies, 0 op
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: Oulu Business School  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä

722901J: FIN, Research Methodology, Dissertation Analysis, 0 - 10 op
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: Oulu Business School  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä

722900J: FIN, Research Methodology, Methodology, 0 - 10 op
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: Oulu Business School  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä

722902J: FIN, Research Methodology, Research Methods, 0 - 10 op
Opiskelumuoto: Post-graduate Studies  
Laji: Course  
Vastuuysikkö: Oulu Business School  
Arvostelu: 1 - 5, pass, fail  
Opintokohteen kielet: Finnish  
Voidaan suorittaa useasti: Kyllä

722630J: IB, Major Subject Studies, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722631J: IB, Major Subject Studies, Specialisation Studies in International Business, 0 - 10 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722600J: IB, Research Methodology, 0 - 10 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722730J: LOG, Major Subject Studies, Logistics Theory and History, 0 - 10 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

722732J: LOG, Major Subject Studies, Special Issue in Logistics, 0 - 10 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.
722731J: LOG, Major Subject Studies, Specialisation Studies in Logistics, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722700J: LOG, Research Methodology, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722530J: MAN&ORG, Major Subject Studies, Management Theory and History, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722532J: MAN&ORG, Major Subject Studies, Special Issues in Management and Organization, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

722531J: MAN&ORG, Major Subject Studies, Specialisation Studies in Management and Organization, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksovalokuvia.

722500J: MAN&ORG, Research Methodology, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksovalokuvia.

722430J: MAR, Major subject studies, Marketing Theory and History, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksovalokuvia.

722432J: MAR, Major subject studies, Special Issues in Marketing, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksovalokuvia.

722431J: MAR, Major subject studies, Specialisation Studies in Marketing, 0 - 10 op
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksovalokuvia.
722400J: MAR, Research Methodology, 0 - 10 op

Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: Oulu Business School
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920010J: Scientific Communication, 0,5 op

Voimassaolo: 01.01.2011 -
Opiskelumuoto: Post-graduate Studies
Laji: Course
Vastuuysikkö: University of Oulu Graduate School, UniOGS
Arvostelu: 1 - 5, pass, fail
Opettajat: Belt, Pekka Juhani, Heape Martin
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

ECTS Credits:
0,5 ECTS credit
Language of instruction:
Finnish / English
Timing:
once during spring and once during autumn

Learning outcomes:
This course provides students with understanding over efficient writing of scientific journal articles and doctoral dissertations. The course will motivate students to start writing sooner. After this course the student will understand what is required from scientific journal articles and doctoral dissertations and what the related publishing processes entail. The student will know the typical structures of scientific articles and doctoral dissertations and how to write effectively.

Contents:
Students must attend at least two different lectures from the list below to pass the course and obtain the study credits:
1. Writing scientific journal articles
2. Writing a doctoral dissertation
3. Writing the compiling part of a compilation dissertation

Mode of delivery:
The course includes lectures and 5 hours of personal work.

Learning activities and teaching methods:
The course includes lectures and 5 hours of personal work. Each lecture is 4x45min in length arranged as a single half-day session. Personal work includes preparing and consolidating the topics treated during the lectures. This may mean familiarizing with the guidebooks provided as study material, analyzing articles in your target journal and/or analyzing doctoral dissertations in your own field by comparing them against the structures presented during this course.
Recommended or required reading:

Study materials:
(Available at www.tinyurl.com/efficient-doctoral-studies)

Tips for writing scientific journal articles Practical tips for doctoral students

Study materials:
(Available at www.tinyurl.com/efficient-doctoral-studies)

Tips for writing scientific journal articles

Practical tips for doctoral students

Grading:
pass / fail

Person responsible:
Dr Pekka Belt