

Opasraportti

University of Oulu Graduate School (2020 - 2021)

Tutkintorakenteet

Doctor of Philosophy, Biochemistry and Molecular Medicine

Tutkintorakenteen tila: published

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

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 (4 credits)

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 2 op

Optional General- and Transferable Skills Studies

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 (4 credits)

- 920012J: Doctoral Training Plan, 3 op
- 920021J: Research Group, 0 op
- 748617J: Research Plan and Seminar, Seminar, 1 - 12 op

Optional Field Specific Studies (12 credits)

Thesis examination process

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 920019J: Permission to defend the thesis, 0 op

920018J: Pre-examination, 0 op

Thesis book

046003J: Medical Biochemistry and Molecular Biology, thesis, 0 op

Doctor of Medical Science, Biochemistry and Molecular Medicine

Tutkintorakenteen tila: archived

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

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 (4 credits)

920017J: First Follow-up Group Meeting, 0 op
920007J: Follow-up Group Reporting and meetings, 1 op
920001J: Introduction to Doctoral Training, 1 op
920014J: Midterm Report of Doctoral Training, 0 op
920022J: Nomination of follow-up group, 0 op
920002J: Scientific Research and Ethics, 2 op

Optional General- and Transferable Skills Studies

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 (4 credits)

920012J: Doctoral Training Plan, 3 op
920021J: Research Group, 0 op
748617J: Research Plan and Seminar, Seminar, 1 - 12 op

Optional Field Specific Studies (at least 12 credits)

Thesis examination process

920020J: Acceptance and Grading of the Thesis, 0 op
920019J: Permission to defend the thesis, 0 op
920018J: Pre-examination, 0 op

Thesis book

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

Doctor of Dental Science, Oral Health Sciences

Tutkintorakenteen tila: archived

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

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 920007J: Follow-up Group Reporting and meetings, 1 op
 920001J: Introduction to Doctoral Training, 1 op
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 920002J: Scientific Research and Ethics, 2 op

Optional General- and Transferable Skills Studies

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 (4 credits)

920012J: Doctoral Training Plan, 3 op
 920021J: Research Group, 0 op
 046034J: Research plan and seminar, seminar, 1 op

Optional Field Specific Studies

Thesis examination process

920020J: Acceptance and Grading of the Thesis, 0 op
 920019J: Permission to defend the thesis, 0 op
 920018J: Pre-examination, 0 op

Thesis book

046002J: Dentistry, thesis, 0 op

Doctor of Philosophy, Oral Health Sciences

Tutkintorakenteen tila: archived

Lukuvuosi: 2020-21

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Optional Field Specific Studies

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920020J: Acceptance and Grading of the Thesis, 0 op
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Thesis book

046002J: Dentistry, thesis, 0 op

Doctor of Medical Science, Oral Health Sciences

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Optional Field Specific Studies

Thesis examination process

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 920019J: Permission to defend the thesis, 0 op
 920018J: Pre-examination, 0 op

Thesis book

046001J: Medicine, thesis, 0 op

Doctor of Philosophy, Medicine

Tutkintorakenteen tila: published

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920002J: Scientific Research and Ethics, 2 op

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920018J: Pre-examination, 0 op

Thesis book

046001J: Medicine, thesis, 0 op

Doctor of Medical Science, Medical Physics and Technology

Tutkintorakenteen tila: published

Lukuvuosi: 2020-21

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Tutkintorakenteen tila: published

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Doctor of Dental Science, Medical Physics and Technology

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 920019J: Permission to defend the thesis, 0 op
 920018J: Pre-examination, 0 op

Thesis book

046001J: Medicine, thesis, 0 op

Doctor of Health Sciences, Nursing Science

Tutkintorakenteen tila: published

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

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920007J: Follow-up Group Reporting and meetings, 1 op
 920001J: Introduction to Doctoral Training, 1 op
 920014J: Midterm Report of Doctoral Training, 0 op
 920022J: Nomination of follow-up group, 0 op
 920002J: Scientific Research and Ethics, 2 op

Optional General- and Transferable Skills Studies

Field Specific Studies, obligatory (9 credits) (vähintään 9 op)

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

Compulsory Field Specific Studies include:

- **920012J Doctoral Training plan, 3 credits**, Completion of the Doctoral Training plan. This consists of writing the research, study and career plans, and the approval of the plan by the follow-up group and its acceptance of the plan by the Doctoral Training Committee of UniOGS
- **046034J Research Plan and Seminar, seminar 1 credit**, participation and presentation of doctoral training plan in a research (plan) seminar. The purpose of the seminar is to develop communication skills, to get peer support from other students and get to know other studies in the same field. The research (plan) seminars are organized by your discipline, department or doctoral programme.
- **356012J Systematic review (5 credits)**

920012J: Doctoral Training Plan, 3 op
 920021J: Research Group, 0 op
 046034J: Research plan and seminar, seminar, 1 op
 356012J: Systematic review, 5 op

Optional Field Specific Studies, part I (5 credits) (5 op)

Select on of the following courses and add it to your PSP:

356013J Theory development and testing 5 ECTS
 356014J Intervention studies 5 ECTS
 356015J Register-based research 5 ECTS
 356016J National and international studies in health sciences 5 ECTS
 356019J Evidence synthesis for use of healthcare 5 ECTS

Optional Field Specific Studies, part II (1 credits) (1 op)

Select one of the following courses and add it to your PSP:

356017J International research seminar 1 ECTS
 356018J Research seminar in nursing science and health management 1 ECTS

Optional Field Specific Studies, part III (at least 1 credit) (vähintään 1 op)

Optional field specific studies, at least 12 credits. Course information is found: <https://www oulu.fi/uniogs/dp/hbsdpcalendar-of-events>

Courses done elsewhere, conferences, research visits and teaching tasks can be planned with the following codes:

356011J Conference 0,5-2 ECTS

046032J Research Visit 0,5-2 ECTS

046033J Teaching tasks, 0-2 ECTS

046051J Medical Postgraduate Studies, 1 op

Teaching tasks can be included in the optional field specific studies. In that case, you must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: <http://www oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl>).

Thesis examination process

920020J: Acceptance and Grading of the Thesis, 0 op

920019J: Permission to defend the thesis, 0 op

920018J: Pre-examination, 0 op

Thesis book

356001J: Health Sciences, thesis, 0 op

Doctor of Health Sciences, Health management science

Tutkintorakenteen tila: published

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

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 (4 credits)

920017J: First Follow-up Group Meeting, 0 op

920007J: Follow-up Group Reporting and meetings, 1 op

920001J: Introduction to Doctoral Training, 1 op

920014J: Midterm Report of Doctoral Training, 0 op

920022J: Nomination of follow-up group, 0 op

920002J: Scientific Research and Ethics, 2 op

Optional General- and Transferable Skills Studies

Field Specific Studies, obligatory (9 credits) (vähintään 9 op)

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

Compulsory Field Specific Studies include:

- **920012J Doctoral Training plan, 3 credits**, Completion of the Doctoral Training plan. This consists of writing the research, study and career plans, and the approval of the plan by the follow-up group and its acceptance of the plan by the Doctoral Training Committee of UniOGS
- **046034J Research Plan and Seminar, seminar 1 credit**, participation and presentation of doctoral training plan in a research (plan) seminar. The purpose of the seminar is to develop communication skills, to get peer support from other students and get to know other studies in the same field. The research (plan) seminars are organized by your discipline, department or doctoral programme.
- **356012J Systematic review (5 credits)**

920012J: Doctoral Training Plan, 3 op

920021J: Research Group, 0 op

046034J: Research plan and seminar, seminar, 1 op

356012J: Systematic review, 5 op

Optional Field Specific Studies, part I (5 credits) (5 op)

Select on of the following courses and add it to your PSP:

356013J Theory development and testing 5 ECTS

356014J Intervention studies 5 ECTS

356015J Register-based research 5 ECTS

356016J National and international studies in health sciences 5 ECTS

356019J Evidence synthesis for use of healthcare 5 ECTS

Optional Field Specific Studies, part II (1 credits) (1 op)

Select one of the following courses and add it to your PSP:

356017J International research seminar 1 ECTS

356018J Research seminar in nursing science and health management 1 ECTS

Optional Field Specific Studies, part III (at least 1 credit) (vähintään 1 op)

Optional field specific studies, at least 12 credits. Course information is found: <https://www oulu.fi/uniogs/dp/hbsdpcalendar-of-events>

Courses done elsewhere, conferences, research visits and teaching tasks can be planned with the following codes:

356011J Conference 0,5-2 ECTS

046032J Research Visit 0,5-2 ECTS

046033J Teaching tasks, 0-2 ECTS

046051J Medical Postgraduate Studies, 1 op

Teaching tasks can be included in the optional field specific studies. In that case, you must have followed the course "University pedagogics for doctoral students" (920005J), or an equivalent course, or be able to demonstrate sufficient teaching skills through previous experience (see RPL practices: <http://www oulu.fi/english/studying/supporting-your-studies/recognition-prior-learning-rpl>).

Thesis examination process

920020J: Acceptance and Grading of the Thesis, 0 op
 920019J: Permission to defend the thesis, 0 op
 920018J: Pre-examination, 0 op

Thesis book

356001J: Health Sciences, thesis, 0 op

Doctor of Philosophy, Health management science

Tutkintorakenteen tila: published

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Lukuvuoden alkamispäivämäärä: 01.08.2020

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General and Transferable Skills Studies (4 credits)

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 920001J: Introduction to Doctoral Training, 1 op
 920014J: Midterm Report of Doctoral Training, 0 op
 920022J: Nomination of follow-up group, 0 op
 920002J: Scientific Research and Ethics, 2 op

Optional General- and Transferable Skills Studies

Field Specific Studies, obligatory (9 credits) (vähintään 9 op)

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Optional Field Specific Studies, part I (5 credits) (5 op)

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Thesis book

356001J: Health Sciences, thesis, 0 op

Doctor of Philosophy, Nursing Science

Tutkintorakenteen tila: published

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920020J: Acceptance and Grading of the Thesis, 0 op

920019J: Permission to defend the thesis, 0 op

920018J: Pre-examination, 0 op

Thesis book

356001J: Health Sciences, thesis, 0 op

Doctor of Science, Architecture

Tutkintorakenteen tila: published

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

General- and Transferable Skills Studies (4 - 14 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

920017J: First Follow-up Group Meeting, 0 op

920007J: Follow-up Group Reporting and meetings, 1 op

920001J: Introduction to Doctoral Training, 1 op

920014J: Midterm Report of Doctoral Training, 0 op

920022J: Nomination of follow-up group, 0 op

920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (26 - 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

920020J: Acceptance and Grading of the Thesis, 0 op
 920012J: Doctoral Training Plan, 3 op
 920019J: Permission to defend the thesis, 0 op
 920018J: Pre-examination, 0 op
 920021J: Research Group, 0 op
 450023J: Research Plan and Seminar, Seminar, 1 op

Doctoral Thesis

450001J: Architecture, thesis, 0 op

Doctor of Philosophy, Architecture

Tutkintorakenteen tila: published

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

General- and Transferable Skills Studies (4 - 14 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

920017J: First Follow-up Group Meeting, 0 op
 920007J: Follow-up Group Reporting and meetings, 1 op
 920001J: Introduction to Doctoral Training, 1 op
 920014J: Midterm Report of Doctoral Training, 0 op
 920022J: Nomination of follow-up group, 0 op
 920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (26 - 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

920020J: Acceptance and Grading of the Thesis, 0 op
 920012J: Doctoral Training Plan, 3 op
 920019J: Permission to defend the thesis, 0 op
 920018J: Pre-examination, 0 op
 920021J: Research Group, 0 op
 450023J: Research Plan and Seminar, Seminar, 1 op

Doctoral Thesis (vähintään 180 op)

450001J: Architecture, thesis, 0 op

Doctor of Philosophy, Biology

Tutkintorakenteen tila: published

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

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

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 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

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 920012J: Doctoral Training Plan, 3 op
- 750929J: Kaamos-symposium, 2 - 4 op
- 754929J: Organizing Kaamos symposium, 2 op
- 920019J: Permission to defend the thesis, 0 op
- 920018J: Pre-examination, 0 op
- 750662J: Research Plan and Seminar, Seminar, 1 - 2 op

Doctoral Thesis

- 750671J: Ph.D. thesis in biology, 0 op

Doctor of Philosophy, Physics

Tutkintorakenteen tila: published

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

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

920017J: First Follow-up Group Meeting, 0 op
 920007J: Follow-up Group Reporting and meetings, 1 op
 920001J: Introduction to Doctoral Training, 1 op
 920014J: Midterm Report of Doctoral Training, 0 op
 920022J: Nomination of follow-up group, 0 op
 920002J: Scientific Research and Ethics, 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

920020J: Acceptance and Grading of the Thesis, 0 op
 920012J: Doctoral Training Plan, 3 op
 920019J: Permission to defend the thesis, 0 op
 920018J: Pre-examination, 0 op
 920021J: Research Group, 0 op
 766692J: Research Plan and Seminar, Seminar, 1 op

Doctoral Thesis

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

Doctor of Philosophy, Astronomy

Tutkintorakenteen tila: published

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

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

920017J: First Follow-up Group Meeting, 0 op
 920007J: Follow-up Group Reporting and meetings, 1 op
 920001J: Introduction to Doctoral Training, 1 op
 920014J: Midterm Report of Doctoral Training, 0 op
 920022J: Nomination of follow-up group, 0 op
 920002J: Scientific Research and Ethics, 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

920020J: Acceptance and Grading of the Thesis, 0 op
 920012J: Doctoral Training Plan, 3 op
 920019J: Permission to defend the thesis, 0 op
 920018J: Pre-examination, 0 op
 920021J: Research Group, 0 op
 766692J: Research Plan and Seminar, Seminar, 1 op

Doctoral Thesis

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

Doctor of Philosophy, Chemistry

Tutkintorakenteen tila: published

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

General- and Transferable Skills Studies (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

920017J: First Follow-up Group Meeting, 0 op
 920007J: Follow-up Group Reporting and meetings, 1 op
 920001J: Introduction to Doctoral Training, 1 op
 920014J: Midterm Report of Doctoral Training, 0 op
 920022J: Nomination of follow-up group, 0 op
 920002J: Scientific Research and Ethics, 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

920020J: Acceptance and Grading of the Thesis, 0 op
 920012J: Doctoral Training Plan, 3 op
 920019J: Permission to defend the thesis, 0 op
 920018J: Pre-examination, 0 op
 920021J: Research Group, 0 op
 780614J: Research Plan and Seminar, seminar, 1 op

Doctoral Thesis

789610J: Chemistry, thesis, 0 op

Doctor of Philosophy, Mechanical Engineering

Tutkintorakenteen tila: published

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

General- and Transferable Skills Studies (4 - 11 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

- 920017J: First Follow-up Group Meeting, 0 op
- 920007J: Follow-up Group Reporting and meetings, 1 op
- 920001J: Introduction to Doctoral Training, 1 op
- 920014J: Midterm Report of Doctoral Training, 0 op
- 920022J: Nomination of follow-up group, 0 op
- 920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (29 - 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

- 920020J: Acceptance and Grading of the Thesis, 0 op
- 920012J: Doctoral Training Plan, 3 op
- 920019J: Permission to defend the thesis, 0 op
- 920018J: Pre-examination, 0 op
- 920021J: Research Group, 0 op
- 460023J: Research Plan and Seminar, Seminar, 1 op

Doctoral Thesis

- 460001J: Mechanical Engineering, thesis, 0 op

Doctor of Science (Technology), Mechanical Engineering

Tutkintorakenteen tila: published

Lukuvuosi: 2020-21

Lukuvuoden alkamispäivämäärä: 01.08.2020

General- and Transferable Skills Studies (4 - 11 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

920017J: First Follow-up Group Meeting, 0 op
 920007J: Follow-up Group Reporting and meetings, 1 op
 920001J: Introduction to Doctoral Training, 1 op
 920014J: Midterm Report of Doctoral Training, 0 op
 920022J: Nomination of follow-up group, 0 op
 920002J: Scientific Research and Ethics, 2 op

Field Specific Studies (29 - 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

920020J: Acceptance and Grading of the Thesis, 0 op
 920012J: Doctoral Training Plan, 3 op
 920019J: Permission to defend the thesis, 0 op
 920018J: Pre-examination, 0 op
 920021J: Research Group, 0 op
 460023J: Research Plan and Seminar, Seminar, 1 op

Doctoral Thesis

460001J: Mechanical Engineering, thesis, 0 op

Opintojaksojen kuvaukset

Tutkintorakenteisiin kuuluvien opintokohteiden kuvaukset

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.**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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

748617J: Research Plan and Seminar, Seminar, 1 - 12 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Biochemistry and Molecular Medicine

Arvostelu: 1 - 5, pass, fail

Opettajat: Tuomo Glumoff

Opintokohteen kielet: English

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

046003J: Medical Biochemistry and Molecular Biology, thesis, 0 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Faculty of Biochemistry and Molecular Medicine

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

748617J: Research Plan and Seminar, Seminar, 1 - 12 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Biochemistry and Molecular Medicine

Arvostelu: 1 - 5, pass, fail

Opettajat: Tuomo Glumoff

Opintokohteen kielet: English

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

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

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Faculty of Biochemistry and Molecular Medicine

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op**Voimassaolo:** 01.08.2013 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**920022J: Nomination of follow-up group, 0 op****Voimassaolo:** 01.01.2012 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**Voidaan suorittaa useasti:** Kyllä**920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>**Mode of delivery:**

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Medicine

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Dentistry

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Medicine

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Dentistry

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**046034J: Research plan and seminar, seminar, 1 op****Voimassaolo:** 01.01.2013 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** Faculty of Medicine**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**Leikkaavuudet:**

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

920020J: Acceptance and Grading of the Thesis, 0 op**Voimassaolo:** 01.08.2014 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**920019J: Permission to defend the thesis, 0 op****Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**920018J: Pre-examination, 0 op****Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

046002J: Dentistry, thesis, 0 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Dentistry

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Medicine

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

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.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Medicine

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

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.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Medicine

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

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.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.**Grading:**

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op**Voimassaolo:** 01.08.2013 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**920022J: Nomination of follow-up group, 0 op****Voimassaolo:** 01.01.2012 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Medicine

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

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.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Medicine

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

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.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**046034J: Research plan and seminar, seminar, 1 op****Voimassaolo:** 01.01.2013 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** Faculty of Medicine**Arvostelu:** 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

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.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Medicine

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

356012J: Systematic review, 5 op

Voimassaolo: 01.08.2016 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Health Sciences

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Proficiency level:

-

Status:

-

Required proficiency level:

-

ECTS Credits:

5 ECTS credits/ 135 hours of work

Language of instruction:

Finnish and English

Timing:

Every second year, spring term, 3rd period.

Learning outcomes:

Student is able to describe the systematic review process, evaluate the quality appraisal and bias of review and develop a systematic review protocol.

Contents:

Systematic review process, quality appraisal, data extraction and synthesis, bias of review.

Mode of delivery:

Blended-learning

Learning activities and teaching methods:

Preliminary reading 6h, lectures 12h, workshops 4h and systematic review protocol as an independent work 113h.

Target group:

Doctoral Degree students in health sciences.

Prerequisites and co-requisites:

-

Recommended optional programme components:

No

Recommended or required reading:

Current international research and learning materials of lecturers.

Assessment methods and criteria:

Active participation in lectures and workshops using digital media, written assignment with self-evaluation.

Grading:

Pass/fail

Person responsible:

Professor

Working life cooperation:

Student is able to choose research topic related to real working and his/her own expertise.

Other information:

-

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Health Sciences

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Medicine

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

356012J: Systematic review, 5 op

Voimassaolo: 01.08.2016 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Health Sciences

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Proficiency level:

-

Status:

-

Required proficiency level:

-

ECTS Credits:

5 ECTS credits/ 135 hours of work

Language of instruction:

Finnish and English

Timing:

Every second year, spring term, 3rd period.

Learning outcomes:

Student is able to describe the systematic review process, evaluate the quality appraisal and bias of review and develop a systematic review protocol.

Contents:

Systematic review process, quality appraisal, data extraction and synthesis, bias of review.

Mode of delivery:

Blended-learning

Learning activities and teaching methods:

Preliminary reading 6h, lectures 12h, workshops 4h and systematic review protocol as an independent work 113h.

Target group:

Doctoral Degree students in health sciences.

Prerequisites and co-requisites:

-

Recommended optional programme components:

No

Recommended or required reading:

Current international research and learning materials of lecturers.

Assessment methods and criteria:

Active participation in lectures and workshops using digital media, written assignment with self-evaluation.

Grading:

Pass/fail

Person responsible:

Professor

Working life cooperation:

Student is able to choose research topic related to real working and his/her own expertise.

Other information:

-

920020J: Acceptance and Grading of the Thesis, 0 op**Voimassaolo:** 01.08.2014 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**920019J: Permission to defend the thesis, 0 op****Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish

920018J: Pre-examination, 0 op**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**Voidaan suorittaa useasti:** Kyllä**356001J: Health Sciences, thesis, 0 op****Voimassaolo:** 01.08.2005 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Defence of the Ph. D. thesis**Vastuuyksikkö:** Health Sciences**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op**Voimassaolo:** 01.01.2012 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Medicine

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

356012J: Systematic review, 5 op

Voimassaolo: 01.08.2016 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Health Sciences

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Proficiency level:

-

Status:

-

Required proficiency level:

-

ECTS Credits:

5 ECTS credits/ 135 hours of work

Language of instruction:

Finnish and English

Timing:

Every second year, spring term, 3rd period.

Learning outcomes:

Student is able to describe the systematic review process, evaluate the quality appraisal and bias of review and develop a systematic review protocol.

Contents:

Systematic review process, quality appraisal, data extraction and synthesis, bias of review.

Mode of delivery:

Blended-learning

Learning activities and teaching methods:

Preliminary reading 6h, lectures 12h, workshops 4h and systematic review protocol as an independent work 113h.

Target group:

Doctoral Degree students in health sciences.

Prerequisites and co-requisites:

-

Recommended optional programme components:

No

Recommended or required reading:

Current international research and learning materials of lecturers.

Assessment methods and criteria:

Active participation in lectures and workshops using digital media, written assignment with self-evaluation.

Grading:

Pass/fail

Person responsible:

Professor

Working life cooperation:

Student is able to choose research topic related to real working and his/her own expertise.

Other information:

-

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

356001J: Health Sciences, thesis, 0 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Health Sciences

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

046034J: Research plan and seminar, seminar, 1 op

Voimassaolo: 01.01.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Faculty of Medicine

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

356012J: Systematic review, 5 op

Voimassaolo: 01.08.2016 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Health Sciences

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Proficiency level:

-

Status:

-

Required proficiency level:

-

ECTS Credits:

5 ECTS credits/ 135 hours of work

Language of instruction:

Finnish and English

Timing:

Every second year, spring term, 3rd period.

Learning outcomes:

Student is able to describe the systematic review process, evaluate the quality appraisal and bias of review and develop a systematic review protocol.

Contents:

Systematic review process, quality appraisal, data extraction and synthesis, bias of review.

Mode of delivery:

Blended-learning

Learning activities and teaching methods:

Preliminary reading 6h, lectures 12h, workshops 4h and systematic review protocol as an independent work 113h.

Target group:

Doctoral Degree students in health sciences.

Prerequisites and co-requisites:

-

Recommended optional programme components:

No

Recommended or required reading:

Current international research and learning materials of lecturers.

Assessment methods and criteria:

Active participation in lectures and workshops using digital media, written assignment with self-evaluation.

Grading:

Pass/fail

Person responsible:

Professor

Working life cooperation:

Student is able to choose research topic related to real working and his/her own expertise.

Other information:

-

920020J: Acceptance and Grading of the Thesis, 0 op**Voimassaolo:** 01.08.2014 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**920019J: Permission to defend the thesis, 0 op****Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**920018J: Pre-examination, 0 op****Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**Voidaan suorittaa useasti:** Kyllä**356001J: Health Sciences, thesis, 0 op****Voimassaolo:** 01.08.2005 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Defence of the Ph. D. thesis**Vastuuyksikkö:** Health Sciences**Arvostelu:** suor (pass), oiv (excellent), khy (excellent)**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op**Voimassaolo:** 01.01.2012 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

450023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

450001J: Architecture, thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

450023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

450001J: Architecture, thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

750929J: Kaamos-symposium, 2 - 4 op

Voimassaolo: 01.01.2017 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Field of Biology

Arvostelu: 1 - 5, pass, fail

Opettajat: Muotka, Timo Tapani

Opintokohteen kielet: English

ECTS Credits:

2-4 ECTS credits / 53-107 hours of work.

Language of instruction:

English.

Timing:

M.Sc. and Ph.D. autumn.

Learning outcomes:

Students get acquainted to preparing, presenting and evaluating a scientific oral presentation.

Contents:

The Kaamos Symposium consisting of presenting current research projects is held every year at the end of autumn period. Through presenting their research work and projects and obtaining feedback from the audience (students and the staff of the department) post graduate students gain experience in holding a scientific presentation.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

Presentation (talk) and participation to whole symposium = 2 cr (PhD students, 750929J)

Participation to whole symposium and 5 summaries of presentations = 2 cr (master and bachelor students, 750629S or 750629A, summaries are to be sent to the responsible teacher by email)

poster = 0.5 cr (PhD students, 750929J)

Target group:

Undergraduate biology students (2 cr) and postgraduate biology students (2-4 cr).

Prerequisites and co-requisites:

No.

Recommended optional programme components:

-

Recommended or required reading:

Abstract book.

Assessment methods and criteria:

Presentation or reports.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

Pass / Fail.

Person responsible:

Prof. Timo Muotka and dr. Laura Kvist.

Working life cooperation:

No.

Other information:

-

754929J: Organizing Kaamos symposium, 2 op

Voimassaolo: 01.01.2017 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Field of Biology

Arvostelu: 1 - 5, pass, fail

Opettajat: Muotka, Timo Tapani

Opintokohteen kielet: English

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

2 ECTS.

Language of instruction:

English.

Timing:

Ph.D. degree, 1st year.

Learning outcomes:

Student is able to organize scientific conferences.

Contents:

Organization of a conference.

Mode of delivery:

-

Learning activities and teaching methods:

Participation in the organizing committee.

Target group:

Ph.D. students in biology.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

-

Assessment methods and criteria:

-

Grading:

Pass / Fail.

Person responsible:

Prof. Timo Muotka and Dr. Laura Kvist.

Working life cooperation:

Yes.

Other information:

-

920019J: Permission to defend the thesis, 0 op**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**920018J: Pre-examination, 0 op****Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**Voidaan suorittaa useasti:** Kyllä**750662J: Research Plan and Seminar, Seminar, 1 - 2 op****Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** Field of Biology**Arvostelu:** 1 - 5, pass, fail**Opettajat:** Muotka, Timo Tapani**Opintokohteen kielet:** English**Leikkaavuudet:**

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä**ECTS Credits:**

1 ECTS credits / 27 hours of work.

Language of instruction:

English.

Timing:

Ph.D. degree, 1st semester.

Learning outcomes:

After the course, the student knows how to develop and present a research plan / doctoral training plan 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, funding and career plan) for his/her doctoral training.

Contents:

The course includes three 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; Part two: The presentation of the doctoral training plan to, and its recommendation for acceptance by, the student's Follow-up Group. The plan is formally accepted by the student's Doctoral Training Committee; Part three: Public presentation of the research in the form of a public Research Plan Seminar Parts 1 & 2, together, comprise 3 cr (920012J). Part 3 comprises 1 cr.

Mode of delivery:

Personal work, written and oral presentations.

Learning activities and teaching methods:

Theoretical or practical training.

Target group:

Ph.D. students in biology.

Prerequisites and co-requisites:

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. Parts 1 & 2 belong to course 920012J.

Recommended optional programme components:

-

Recommended or required reading:

-

Assessment methods and criteria:

-

Grading:

Pass / fail.

Person responsible:

Parts 1 & 2: Supervisor, follow-up group and doctoral training committee. Part 3: Prof. Timo Muotka and Dr. Laura Kvist.

Working life cooperation:

No.

Other information:

-

750671J: Ph.D. thesis in biology, 0 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Field of Biology

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: English

Leikkaavuudet:

755617J	Ph.D. thesis in animal ecology	180.0 op
755619J	Ph.D. thesis in animal physiology	180.0 op
756635J	Ph.D. thesis in plant ecology	180.0 op
756637J	Ph.D. thesis in plant physiology	180.0 op
757609J	Ph.D. thesis in genetics	180.0 op

ECTS Credits:

0 ECTS.

Language of instruction:

Finnish/ English.

Timing:

PhD degree.

Learning outcomes:

The student is able to plan and perform scientific research at her/his own study field. She/he is familiar with the literature and the methodology of the study field. The student is capable of critical scientific thinking and can evaluate her/his own results as well as those produced by other researchers, is able to analyse and conclude the results and can write scientific publications.

Contents:

PhD thesis.

Mode of delivery:

Independent research supported by a supervisor.

Learning activities and teaching methods:

Planning and performing research, reporting it in the form of a monograph or publication(s) and a summary.

Target group:

Ph.D. students in biology.

Recommended optional programme components:

-

Grading:

Pass with distinction / pass / fail.

Person responsible:

Supervisor / Follow-up group / UniOGS.

Other information:

-

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

766692J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Field of Physics

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: English

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:

1 ECTS credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.

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 the course within one year of transferring to the new requirements.

The students should complete 920012J Research plan and seminar, plan, 3 ECTS credits as part of their application to transfer to the new requirements.

Learning outcomes:

After the course the student knows how to present and discuss his/her research progress in oral form, and has learned how to critically discuss the research of others.

Contents:

Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:

Personal work, oral presentation of the research.

Learning activities and teaching methods:

Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:

Doctoral students registered in the University of Oulu Graduate School, obligatory "field-specific" studies

Prerequisites and co-requisites:

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.

Recommended optional programme components:

No alternative course units or course units that should be completed simultaneously

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

Public presentation of the research plan/results in a Research (Plan) Seminar.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

Pass/fail

Person responsible:

Responsible persons of the relevant Majors/fields of doctoral studies.

Working life cooperation:

No work placement period

Other information:

The study credit 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.

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

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Field of Physics

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op**Voimassaolo:** 01.01.2012 -**Opiskelumuoto:** Post-graduate Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu Graduate School, UniOGS**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**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.

Read more about [assessment criteria](#) at the University of Oulu webpage.**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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

766692J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Field of Physics

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: English

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

ECTS Credits:

1 ECTS credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the course within two years of starting the doctoral training.

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 the course within one year of transferring to the new requirements.

The students should complete 920012J Research plan and seminar, plan, 3 ECTS credits as part of their application to transfer to the new requirements.

Learning outcomes:

After the course the student knows how to present and discuss his/her research progress in oral form, and has learned how to critically discuss the research of others.

Contents:

Public presentation of the research in the form of a public Research Plan Seminar, or a Research Seminar.

Mode of delivery:

Personal work, oral presentation of the research.

Learning activities and teaching methods:

Presentation and discussion of the research plan, or the research progress, to senior scientists/professionals and doctoral students (Research Plan Seminar, or Research Seminar).

Target group:

Doctoral students registered in the University of Oulu Graduate School, obligatory "field-specific" studies

Prerequisites and co-requisites:

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.

Recommended optional programme components:

No alternative course units or course units that should be completed simultaneously

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

Public presentation of the research plan/results in a Research (Plan) Seminar.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

Pass/fail

Person responsible:

Responsible persons of the relevant Majors/fields of doctoral studies.

Working life cooperation:

No work placement period

Other information:

The study credit 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.

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

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Field of Physics

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

780614J: Research Plan and Seminar, seminar, 1 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Field of Chemistry

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Ei opintojaksokuvauksia.

789610J: Chemistry, thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Field of Chemistry

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

460023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Field of Mechanical Engineering

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Field of Mechanical Engineering

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

920017J: First Follow-up Group Meeting, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

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.

Read more about [assessment criteria](#) at the University of Oulu webpage.

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:

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 .

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail

Person responsible:

Coordinators of the University of Oulu Graduate School

920014J: Midterm Report of Doctoral Training, 0 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920022J: Nomination of follow-up group, 0 op

Voimassaolo: 01.01.2012 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920002J: Scientific Research and Ethics, 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 / 53 hours of work

Language of instruction:

The course unit is arranged once in the autumn (in English) and once in the spring (in Finnish).

Timing:

The course is held in the autumn semester, during period I (in English), and in the spring semester (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.

Link for the course:

<https://www.oulu.fi/uniogs/node/42690>

Mode of delivery:

Lectures and online course

Learning activities and teaching methods:

Lectures (6 h) and online course (47 h)

Target group:

The course unit is aimed at doctoral students.

Prerequisites and co-requisites:

The course unit does not have prerequisites or recommended prior courses.

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

None

Assessment methods and criteria:

The course unit utilizes continuous assessment. Students must attend all lectures of at least one of the field-specific topics. Online course consists of five weekly assignments which must be successfully completed within the deadline.

Grading:

The course utilizes verbal grading scale "pass/fail".

Person responsible:

Jarmo Pulkkinen

920020J: Acceptance and Grading of the Thesis, 0 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920012J: Doctoral Training Plan, 3 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

Leikkaavuudet:

920004J-01 Research Plan and Seminar, Research Plan 3.0 op

Status:

Obligatory "field-specific" studies

ECTS Credits:

3 credits

Language of instruction:

English (or other, when appropriate)

Timing:

All full-time students whose doctoral study rights started on, or after 1 January 2012 must complete the the course during their first year of doctoral training. All part-time students must complete 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 requirement for the doctoral degrees established by UniOGS in Spring 2012 must complete the course as part of their application to transfer to the new requirement.

Learning outcomes:

After the course the student knows how to develop a doctoral training plan and research progress in written. The student has established a realistic four-year plan (including content, schedule and funding) for his/her doctoral training.

Contents:

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.

Mode of delivery:

Personal work, written presentation.

Learning activities and teaching methods:

Establishment and writing of the doctoral training plan, its written 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).

Prerequisites and co-requisites:

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.

Recommended or required reading:

Background literature of own research field.

Assessment methods and criteria:

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.

The three study credits for the completion are awarded when the Doctoral Training Committee has approved the full doctoral training plan of the student.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass / fail

Person responsible:

Supervisor, follow-up group and doctoral training committee

920019J: Permission to defend the thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

920018J: Pre-examination, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

920021J: Research Group, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: University of Oulu Graduate School, UniOGS

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

460023J: Research Plan and Seminar, Seminar, 1 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Post-graduate Studies

Laji: Course

Vastuuyksikkö: Field of Mechanical Engineering

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

920004J-02 Research Plan and Seminar, seminar 1.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

460001J: Mechanical Engineering, thesis, 0 op

Opiskelumuoto: Post-graduate Studies

Laji: Defence of the Ph. D. thesis

Vastuuyksikkö: Field of Mechanical Engineering

Arvostelu: suor (pass), oiv (excellent), khy (excellent)

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.