

# Opasraportti

## Master's Degree Programme in Learning, Education and Technology (2015 - 2016)

The Master's Degree Programme in Learning, Education and Technology (LET) educates experts in learning. The core of the education consists of three theoretical viewpoints: self-regulated learning, collaborative learning, and the learning of expertise. Each aspect requires strong individual learning skills, and understanding and developing these abilities are essential in this program. Expertise includes abilities to use technologies in pedagogically grounded manners in different learning contexts.

The objectives, contents, and study methods of the program are based on the latest research in the field of learning, as well as expectations set by the individual's working life and the society. Graduates from the LET program are competent to work for example in professions such as teachers, educators, educational consultants, human resources developers, project leaders, coordinators, researchers, and administrators in both the private and public sectors.

Learning, Education and Technology (LET) is a full-time two-year international Master's Program (120 ECTS credits). After completing the program, students are awarded a Master of Arts (Education) degree, which enables them to continue their academic studies at the doctoral level. This degree does not constitute a formal teaching qualification.

See Course Structure Diagram 2015-2016 [here](#)

## Tutkintorakenteet

### LET - Master's Degree Programme in Learning, Education and Technology

Tutkintorakenteen tila: arkistoitu

Lukuvuosi: 2015-16

Lukuvuoden alkamispäivämäärä: 01.08.2015

### General Studies: Language, Communication, and Orientation Studies (5 op)

In the LET programme, students must complete 5 credits of general studies. The general studies form an orientation to the university studies in Finland and particularly to the LET program. The general studies are divided to language studies (2 credits) and communication and orientation studies (3 credits).

#### Language Studies

#### Communication and Orientation Studies

405517Y: Communication and orientation studies, 3 op

## Minor Subject Studies: Introductory Studies in Educational Technology (25 op)

In the LET programme, all students must complete minor subject studies in Introductory Studies of Educational Technology (total 25 ECTS credits).

- 418021P: Designing technology-enhanced learning, 7 op
- 418019P: Johdatus oppimiseen ja koulutusteknologiaan, 5 op
- 418022P: Koulutusprojektit, 6 op
- 418020P: Oppimisen teoria ja teknologian opetuskäyttö, 7 op

## Major Subject Studies: Advanced Studies in Educational Sciences (80 op)

In the LET programme, all students must complete 80 credits of major subject studies.

- 413312S: Collaborative Learning, 5 op
- 413314S: Designing Technology-Enhanced Learning, 5 op
- 408044S: Graduseminaari, 5 op
- 413311S: Itsesäätoinen oppiminen, 8 op
- 413317S: Kirjallisuus, 4 op
- 413313S: Learning of Expertise, 10 op
- 408043S: Pro gradu -tutkielma, 30 op
- 408517S: Research methodology, 10 op
- 408045S: Tiivistelmä/ maturiteetti, 0 op

## Optional Studies (enintään 10 op)

In the LET programme, students can select a total of 10 credits of optional studies. Students can select their optional studies, e.g., on the basis of their previous studies, thesis topic, or personal interest.

*Kindly note that in order to complete courses by other departments or Languages and Communications Center, etc. students might need to apply for a study right or they might be required to register by certain annual deadline. Students are advised to familiarise themselves with the policies and procedures of the department in question.*

# Opintojaksojen kuvaukset

## Tutkintorakenteisiin kuuluvien opintokohteiden kuvaukset

### 405517Y: Communication and orientation studies, 3 op

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Yleisopinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** suomi

**Ajoitus:**

Autumn term, 1<sup>st</sup> year studies in the LET Master's Programme

**Osaamistavoitteet:**

After completion of this course, the student is able to

- produce a Personal Study Plan
- search for scientific publications in databases and evaluate them

- identify a scientific text and distinguish it from other publications
- use most important referencing practices and basic functions of bibliographic management software

**Sisältö:**

- Orientation to studies in the University of Oulu and especially in LET Master's Degree Programme
- Individual discussions about the Personal Study Plan with Personal Study Advisor and other students
- Academic communication and writing
- Characteristics and assessment of scientific texts
- Use of databases

**Toteutustavat:**

Face-to-face 16 h; practice sessions 8 h, collaborative and individual learning face-to-face and online 56 h, some of which with Personal Study Advisor and student tutors

**Kohderyhmä:**

1st year LET Master's Programme students.

**Oppimateriaali:**

To be announced in the beginning of the course.

**Suoritustavat ja arviointikriteerit:**

Active participation, practice sessions and collaborative and independent work. Successful completion of all the learning assignments and exercises.

**Arviointiasteikko:**

Pass/fail

**Vastuuhenkilö:**

Niina Impiö

**418021P: Designing technology-enhanced learning, 7 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Perusopinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** suomi

**Laajuus:**

5/7 ECTS

**Opetuskieli:**

English/Finnish

**Ajoitus:**

Spring term, 1<sup>st</sup> year studies in the LET Master's Degree Programme

1<sup>st</sup> year studies in the EdGlo Master's Degree Programme

**Osaamistavoitteet:**

After completion of this course, the student knows how to

- describe the theoretical background and main stages of designing technology-enhanced learning (TEL)
- design a TEL course
- justify and evaluate instructional and technological design

**Sisältö:**

- Technology-Enhanced Learning (TEL) as a concept
- Designing TEL: instructional and technological design
- Structuring individual and collaborative learning activities
- Implementing and evaluating TEL

**Järjestämistapa:**

Face-to-face and online

**Toteutustavat:**

Face-to-face / online 32 h

Collaborative and individual learning 150 h

Students become familiar with the key concepts, theories and approaches of technology-enhanced learning (TEL) and implement this knowledge by designing their own course in small groups. Students reflect and report on the different stages of the design process in a digital portfolio.

**Kohderyhmä:**

1st year students on the LET Master's Programme

1<sup>st</sup> year studies in the EdGlo Master's Degree Programme

Educational Technology minor students  
Other students

**Oppimateriaali:**

Contemporary readings in the field of technology-enhanced learning, to be announced at the beginning of the course

**Suoritustavat ja arviointikriteerit:**

Active participation in face-to-face teaching and collaborative and independent work. Successful completion of all the learning assignments and exercises.

Lue lisää [opintosuoritusten arvostelusta](#) yliopiston verkkosivulta.

**Arviointiasteikko:**

0-5

**Vastuuhenkilö:**

Essi Vuopala

**Lisätiedot:**

The students in the Master's Degree Programme in Education and Globalization (EdGlo) join the same face-to-face sessions in their own 5-credit course "Designing Technology-Enhanced Learning".

**EdGlo students will be informed about their specific tasks in the beginning of the course.**

## 418019P: Johdatus oppimiseen ja koulutusteknologiaan, 5 op

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Perusopinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** suomi

**Laajuus:**

5 ECTS

**Opetuskieli:**

English/Finnish

**Ajoitus:**

Autumn 2015

**Osaamistavoitteet:**

After completion of this course, the student knows how to

- describe the basic concepts of learning sciences and educational technology
- name some of the major research topics in the field of learning sciences and technology enhanced learning
- identify and discuss contemporary issues in educational technology in global and local educational contexts
- use contemporary educational software and hardware, and also evaluate pedagogical usability of those
- create a digital portfolio in the form of a personal journal in a weblog

**Sisältö:**

- Basic concepts of instruction, learning and technology enhanced learning
- Introduction to the field of learning sciences and technology enhanced learning: objectives, research subjects and theoretical framework
- Reflection on one's own learning and expertise
- Pedagogical use of contemporary educational software and hardware

**Järjestämistapa:**

Face-to-face and online

**Toteutustavat:**

Face-to Face 50h

Collaborative and individual learning 80 h

In this course the students familiarise themselves with the theoretical background, core concepts, and contemporary tools of educational technology. The course introduces the students to the field of learning sciences and examines the role of learning and educational technology in a globalized world. One central goal of this course is to learn to use and evaluate technologies in pedagogically meaningful way. In this course students start to reflect on their own learning and expertise in a digital portfolio.

**Kohderyhmä:**

1st year students on the LET Master's Programme

Educational Technology minor subject students

Other students (as a part of their optional studies)

**Oppimateriaali:**

- How People Learn: Brain, Mind, Experience, and School: Expanded Edition. (2000). Washington, DC: The National Academies Press.
- and/or other contemporary readings in the field of learning and educational technology, to be announced at the beginning of the course.

**Suoritustavat ja arviointikriteerit:**

Active participation in face-to-face teaching and collaborative and independent work. Successful completion of all the learning assignments and exercises.

Lue lisää [opintosuoritusten arvostelusta](#) yliopiston verkkosivulta.

**Arviointiasteikko:**

0-5

**Vastuuhenkilö:**

Essi Vuopala

**418022P: Koulutusprojektit, 6 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Perusopinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** suomi

**Laajuus:**

6 ECTS

**Opetuskieli:**

English/Finnish

**Ajoitus:**

Spring term, 1<sup>st</sup> year studies in the LET Master's Programme

**Osaamistavoitteet:**

After completion of this course, the student knows how to

- plan and implement an educational project
- work responsibly as a member of a project team in collaboration with a client
- apply theoretical knowledge of learning to solve practical challenges in educational working contexts
- report and inform different target groups on the project

**Sisältö:**

- Basics of project work
- Planning, implementation and administration of projects
- Educational projects
- Technology in support of project work

**Järjestämistapa:**

Face-to-face and online

**Toteutustavat:**

Face-to-face 40h

Collaborative and individual learning 120h

In this course the students implement an educational project for a local company, school or other organization. The students design, implement and report on the project in a project group under the teacher's guidance. In this course the students learn about project work in theory and practice. Students reflect and report on different phases of their project work in their digital portfolio.

**Kohderyhmä:**

1st year students on the LET Master's Programme

Educational Technology minor students

Other students (see the prerequisites below)

**Esitietovaatimukset:**

Before joining this course, the student should have completed the following courses:

418019P *Introduction to Learning and Educational Technology*

418020P *Learning Theory and Pedagogical Use of Technology*

**Oppimateriaali:**

Contemporary readings in the field of learning, educational technology and educational projects, to be announced at the beginning of the course

**Suoritustavat ja arviointikriteerit:**

Active participation in face-to-face and collaborative and individual learning. Successful completion of all the learning assignments and exercises.

Lue lisää [opintosuoritusten arvostelusta](#) yliopiston verkkosivulta.

**Arviointiasteikko:**

0-5

**Vastuuhenkilö:**

Essi Vuopala

**418020P: Oppimisen teoria ja teknologian opetuskäyttö, 7 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Perusopinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** suomi

**Laajuus:**

7 ECTS

**Opetuskieli:**

English/Finnish

**Ajoitus:**

Autumn term, 1st year studies in the LET Master's Programme

**Osaamistavoitteet:**

After completion of this course, the student knows how to

- identify the theoretical principles underlying technology-enhanced learning
- define the concepts of self-regulated learning, collaborative learning and learning of expertise
- describe the use of technology to support such learning
- justify pedagogical use of technology by using current theoretical knowledge of learning

**Sisältö:**

- Self-Regulated Learning
- Collaborative Learning and Computer-Supported Collaborative Learning (CSCL)
- Learning of Expertise
- Supporting learning with technology

**Järjestämistapa:**

Face-to-face and online

**Toteutustavat:**

Face-to-face 30 h

Collaborative and individual learning 157 h

The course includes three theoretical viewpoints on learning: self-regulated learning, collaborative learning, and learning of expertise. The goal of the course is to understand these theoretical principles of learning and comprehend the possibilities to support such learning with technology. Students reflect on their theoretical knowledge and their own learning process in their digital portfolio.

**Kohderyhmä:**

1st year students on the LET Master's Programme

Educational Technology minor students

Other students (as a part of their optional studies)

**Oppimateriaali:**

- How People Learn: Brain, Mind, Experience, and School: Expanded Edition. (2000). Washington, DC: The National Academies Press.
- Boekaerts, M. Pintrich, P.R. & M. Zeidner, M. (Eds.), (2000). Handbook of Self-Regulation. San Diego, CA: Academic Press.
- Spada E. & Reiman, P. (Eds) (1996). Learning in Humans and Machine: Towards an interdisciplinary learning science. Oxford: Elsevier.
- Bereiter, C. & Scardamalia, M. (1993). Surpassing ourselves: An Inquiry Into the Nature and Implications of Expertise. Open Court Publishing Company.
- and/or other contemporary readings in the field of learning and educational technology, to be announced at the beginning of the course.

**Suoritustavat ja arviointikriteerit:**

Active participation and collaborative and independent work. Successful completion of all the learning assignments and exercises.

Lue lisää [opintosuoritusten arvostelusta](#) yliopiston verkkosivulta.

**Arviointiasteikko:**

0-5

**Vastuuhenkilö:**

Essi Vuopala

## 413312S: Collaborative Learning, 5 op

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Syventävät opinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** englanti

Ei opintojaksokuvauksia.

## 413314S: Designing Technology-Enhanced Learning, 5 op

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Syventävät opinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** englanti

**Laajuus:**

5 ECTS

**Opetuskieli:**

English

**Ajoitus:**

Spring term, 2nd year studies in the LET Master's Degree Programme

**Osaamistavoitteet:**

After completion of the course, the students will be able to

- recognise the needs, problems, situations and practices of pedagogical use of technologies in school systems worldwide and find research-based solutions for the shortcomings
- examine future trends of technology enhanced learning
- determine current problems, situations and practices of technology enhanced learning in a global context
- analyse the concept of technology-enhanced learning

**Sisältö:**

- Future trends in collaborative technologies
- Evaluating and facilitating TEL
- Digital divide and other global challenges

**Järjestämistapa:**

Face-to-face and online learning activities, which include individual and collaborative learning

**Toteutustavat:**

Face-to-face 30 h and collaborative and individual learning tasks 100 h

**Kohderyhmä:**

2nd year students in the LET Master's Programme

**Esitietovaatimukset:**

Before joining this course, the student should have completed Minor Studies of Educational Technology (25 credits) or other equivalent studies.

**Oppimateriaali:**

Luckin, R., Goodyear, P., Grabowski B. L., Winters, N., Underwood, J. and Puntambekar, S. (Eds.) (2013). Handbook of design in educational technology. Routledge.

**Suoritustavat ja arviointikriteerit:**

Active participation in face-to-face, collaborative and individual work. Successful completion of all the learning assignments and exercises.

Lue lisää [opintosuoritusten arvostelusta](#) yliopiston verkkosivulta.

**Arviointiasteikko:**

0-5

**Vastuuhenkilö:**

Jari Laru

### **408044S: Graduseminaari, 5 op**

**Voimassaolo:** 01.08.2015 -

**Opiskelumuoto:** Syventävät opinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** suomi

### **413311S: Itsesäätöinen oppiminen, 8 op**

**Voimassaolo:** 01.08.2011 -

**Opiskelumuoto:** Syventävät opinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** suomi

Ei opintojaksokuvauksia.

### **413317S: Kirjallisuus, 4 op**

**Voimassaolo:** 01.08.2013 -

**Opiskelumuoto:** Syventävät opinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** englanti

Ei opintojaksokuvauksia.

### **413313S: Learning of Expertise, 10 op**

**Voimassaolo:** 01.02.2011 -

**Opiskelumuoto:** Syventävät opinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** englanti

**Laajuus:**

10 erts

**Opetuskieli:**

English

**Ajoitus:**



1st and 2nd year studies in the LET Master's Programme

**Osaamistavoitteet:**

After the completion of this course, the student

- is able to examine the learning of expertise as a lifelong process that one can pursue oneself
- understands the theoretical framework for the learning of expertise and is able to apply it in practice
- is able to interpret and explain the factors affecting the learning of expertise
- is able to monitor and reflect on learning and awareness of one's competence to excel in authentic situations in working life

**Sisältö:**

- Education, working life and expertise
- Theoretical background of the learning of expertise
- Working strategies characteristic of an expert
- Collaborative problem solving methods

**Järjestämistapa:**

Face-to-face and online

**Toteutustavat:**

Students will work on three cases using collaborative problem solving methods.

Case 1 (3 credits)

Students will reflect on their own expertise as a process by writing an expert profile (five times during 2-year programme)

Case 2 (3 credits)

Students will participate in the process of mentoring as they will be working as mentees in their 1st year of studies and as mentors in their 2nd year of studies.

Case 3 (4 credits)

In this course there will also be casework implemented together with working life partners.

**Kohderyhmä:**

1st and 2nd year students in the LET Master's Programme

**Oppimateriaali:**

To be announced at the beginning of the course

**Suoritustavat ja arviointikriteerit:**

Active participation in face-to-face and collaborative and individual learning. Successful completion of all the learning assignments and exercises.

Lue lisää [opintosuoritusten arvostelusta](#) yliopiston verkkosivulta.

**Arviointiasteikko:**

0-5

**Vastuuhenkilö:**

Pirkko Hyvönen and Niina Impiö

**408043S: Pro gradu -tutkielma, 30 op**

**Voimassaolo:** 01.08.2015 -

**Opiskelumuoto:** Syventävät opinnot

**Laji:** Lopputyö

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** suomi

**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

**408517S: Research methodology, 10 op**

**Voimassaolo:** 01.08.2006 -

**Opiskelumuoto:** Syventävät opinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** englanti

**Laajuus:**

10 op

**Opetuskieli:**

English

**Ajoitus:**

EDGLO: 1st year, autumn and spring, 1st - 4th teaching period

DD: 2nd year, autumn and spring (in Oulu), 1st - 4th teaching period

LET: 1st year, autumn and spring, 1st - 4th teaching period

**Osaamistavoitteet:**

After completion of the course, students are able to:

- Identify the characteristics and main traditions of both qualitative, quantitative and mixed methods research, particularly in the humanities and social sciences
- Analyse the main approaches and research methods from the perspective of various traditions
- Produce a research plan and a coherent, logical and justified research report
- Collect data and apply various methods of analysis and interpretation
- Determine the credibility and ethics of research projects

**Sisältö:**

- Research methodologies
- Construction of a methodological framework in research
- Data collection
- Analysis of data and its interpretation
- Validity and reliability in research
- Reporting research
- Ethical questions in research

**Järjestämistapa:**

Face-to-face teaching

**Toteutustavat:**

80 h lectures/ seminars, 190 h independent study

**Kohderyhmä:**

1st year students in the Master's Degree Programme in Education and Globalisation (EDGLO)

DD students

1st year students in the Master's Degree Programme in Learning, Education and Technology (LET)

**Esitietovaatimukset:**

No

**Yhteydet muihin opintojaksoihin:**

EdGlo: 1st and 2nd year courses: 408512S, 408513S, 408514S, 40528S, 408515S, 408516S, and 408510S

**Oppimateriaali:**Creswell, J. W. (1998). *Qualitative inquiry and research design*. London: Sage.Kerlinger, F. (2000). *Foundations of behavioural research*. Fort Worth: Harcourt College Publishers.Silverman, D. (2000). *Doing qualitative research. a practical handbook*. London: Sage.

Other study material will be confirmed at the beginning of the course.

The availability of the literature can be checked from [this link](#).**Suoritustavat ja arviointikriteerit:**

Active participation in lectures/seminars, an essay, an exam

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

Pass/fail

**Vastuhenkilö:**

Quantitative Methodology: Jouni Peltonen (Master's Degree Programme in Education and Globalisation, Double Degree Programme &amp; Master's Degree Programme in Learning, Education and Technology)

Qualitative Methodology: Mervi Kaukko (Master's Degree Programme in Education and Globalisation &amp; Double Degree Programme), Essi Vuopala (Master's Degree Programme in Learning, Education and Technology)

**Työelämäyhteistyö:**

No

**Lisätiedot:**

No

**408045S: Tiivistelmä/ maturiteetti, 0 op**

Voimassaolo: 01.08.2015 -

**Opiskelumuoto:** Syventävät opinnot

**Laji:** Opintojakso

**Vastuuyksikkö:** Kasvatustieteiden tiedekunta

**Arvostelu:** 1 - 5, hyv, hyl

**Opintokohteen kielet:** suomi