

Opasraportti

KTK - Primary Teacher Education, special group (2012 - 2013)

Primary Teacher Education

Learning Outcomes:

- Student identifies the need for continuous self-development.
- Student is able to take responsibility for his/her actions and support the learners' self-efficacy.
- Student is capable of working in a multi-professional environment.
- Student knows how to analyse and explain theoretical knowledge on education and teaching.
- Student is able to recognize and evaluate creativity and innovation in the field of education.
- Student shows empathy and pedagogical tact and knows how to assess his/her actions in varying situations.
- Student is able to ponder and evaluate critically both own and others' views.
- Student knows how to plan research-based teaching.
- Student is able to participate in development and evaluation tasks in education.
- Student is capable of knowledge generalization, is able to design and invent theoretical knowledge, and apply it to teaching.
- Student knows how to analyse his/her conception of child and social and cultural assumptions of childhood.
- Student knows how to apply different methods and theoretical viewpoints to the study of interaction.

Tutkintorakenteet

Special selection to the primary teacher education programme

Tutkintorakenteen tila: archived

Lukuvuosi: 2012-13

Lukuvuoden alkamispäivämäärä: 01.08.2012

Advanced studies in education (60-62 credits) (60 op)

The Advanced Studies in Education (60 credits) consists of obligatory and interchangeable courses.

Courses obligatory to all students include:

408013S Master's thesis, 40 credits

408015S Curriculum and school development, 5 credits

408016S Education and teachers' work in transition, 5 credits

408028S Master's Phase School Experience I, special groups, 5 credits (this teaching practice comprises a total of 8 credits, out of which 3 credits are included in the multidisciplinary studies)

The student also completes one of the two interchangeable courses:

413030S Advanced Course in Quantitative Research, 5 credits

413031S Advanced Course in Qualitative Research, 5 credits

If the student has NOT previously completed the course entitled Basics of Educational Administration, s/he shall also study

408019S Basics of Educational Administration, 2 credits

as part of the advanced studies in education

408015S: Curriculum and School Development, 5 op

408016S: Education and Teacher's Work in Change, 5 op

408013S: Master's Thesis, 35 - 40 op

408028S: School Work in the Master Phase I, special groups, 5 op

Multidisciplinary studies in the subjects and cross-curricular themes taught in basic education (60 credits) (vähintään 60 op)

A256404: Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education (Special Groups), 60 op

e1

406020A: Mother Tongue and Literature, 7 op

Compulsory

406020A-01: Literature and Reading, 3 op

406020A-02: Language and Writing, 4 op

406021A: Drama Education, 2 op

406022A: History, 3 op

406025A: Mathematics Education: Part I, 3 op

406026A: Mathematics Education: part II, 2 op

406027A: Physics and Chemistry, 4 op

406028A: Biology, 2 op

406029A: Geography, 2 op

406030A: Health Education, 1 op

406031A: Music, 8 op

Compulsory

406031A-01: Pedagogical Applications of Music Education, 3 op

406031A-02: Voice and Singing, 1 op

406031A-03: Listening Education, 1 op

406031A-04: Music Theory in Practice, 1 op

406031A-05: Accompaniment Instrument, 2 op

406032A: Art, 7 op

Compulsory

406032A-01: Drawing, 1 op

406032A-02: Painting, 1 op

406032A-03: Ceramics, 1 op

406032A-04: Building, 1 op

406032A-05: School graphic, 1 op

406032A-06: Environmental aesthetic, 1 op

406032A-07: Media education, 1 op

406035A: Physical Education, 7 op

Compulsory

406035A-04: Lectures, adventure, track and field, 1 op

406035A-05: Indoor ball games, basic gymnastics, 1 op

406035A-06: Skiing, rhythmic gymnastics, 1 op

406035A-07: Outdoor ball games, 1 op

406035A-08: Orienteering, artistic gymnastics, 1 op

406035A-09: Skating, swimming, 1 op

- 406035A-10: SkiAgiFun, the final assignment in p.e., 1 op
 408029S: School Work in the Master Phase II, special groups, 3 op
 406023A: Religion, 2 op
 406024A: Ethics, 2 op
 406033A: Crafts/Textile Work and Technology, 7 op

Compulsory

- 406033A-01: User-Centred Design and Manufacture as an Approach to Crafts and Technology Problems, 3 op
 406033A-02: Materials, Sewing and Clothing Technology, 2 op
 406033A-03: Pedagogical and Didactic Questions, 2 op
 406034A: Crafts/Technical Work and Technology, 7 op

Compulsory

- 406034A-01: Traditional Handicrafts in the Context of Technical Work, 3 op
 406034A-02: Applications of mechatronics, 2 op
 406034A-03: Applications of Electronics, 2 op

Tutkintorakenteisiin kuulumattomat opintokokonaisuudet ja -jaksot

- 413031S: Advanced course in qualitative research, 5 op

Compulsory

- 413031S-01: Advanced course in qualitative research, lectures and literature, 2 op
 413031S-02: Advanced course in qualitative research, exercises, 3 op

- 413030S: Advanced course in quantitative research, 5 op

Compulsory

- 413030S-01: Advanced course in quantitative research, lectures and literature, 2 op
 413030S-02: Advanced course in quantitative research, exercises, 3 op

- 408019S: Basics of educational administration, 2 op

Opintojaksojen kuvaukset

Tutkintorakenteisiin kuuluvien opintokohteiden kuvaukset

408015S: Curriculum and School Development, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Cornbleth, Catherine , , 1990

Doll, William E. Jr. , , 1993

Stoll, Louise , , 1996

Opintokohteen kielet: Finnish

ECTS Credits:

5 cr

Language of instruction:

Finnish

Timing:

4th year, spring term

Learning outcomes:

The course provides students with the necessary capacities for curricular design at the school and municipal levels, and training for curricular evaluation at the local level. The course familiarises the students with curriculum theory - especially with the significance of the curriculum in the development of a school's activities - and discusses the connections of the curriculum with society and education policy. In addition, educational evaluation is looked at in terms of both theory and practice at local, national and international levels. As a whole, the course gives student teachers the capacity to function as committed, critical and responsible actors in the development of the curricular and its evaluation.

After the course the student is able to

- identifies the theoretical premises underlying different curricula
- identify and interpret the values and goals underlying curricula as well as their connections with society and education policy.
- identifies and is able to determine the different levels of educational evaluation (local, national, international; theory and practice)
- design a curriculum and manage/develop its basis of evaluation

Contents:

- concept of curriculum
- different curricular theories and approaches
- foundations, levels and methods of evaluation
- evaluation and education policy

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

- lectures 20 h and small group sessions 12 h, as part of which a project plan is made in practice related to the field of curriculum or evaluation, or a project in progress in which you are involved is described and evaluated
- the planning or evaluation task can be integrated with teaching practice

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

Can be integrated with a teaching practice period.

Recommended or required reading:

Vitikka, E. 2009. Opetussuunnitelman mallin jäsenyys: sisältö ja pedagogiikka kokonaisuuden rakentajina. Helsinki: Suomen kasvatustieteellinen seura.

Articles from W. Pinar (Ed.) 2003. International Handbook of Curriculum Research. Mahwah, New Jersey: Lawrence Erlbaum Associates. E.g. Autto, T. Post-modern Paradoxes in Finland: The Confinements of Rationality in Curriculum Studies. p. 301-328 and Johansson, U. Frame Factors, Structures, and Meaning Making: Shifting Foci of Curriculum Research in Sweden, p. 575-594.

The availability of the literature can be checked from [this link](#).

Assessment methods and criteria:

Based on an exam and report on the development or evaluation assignment. Both parts are assessed on the scale 0-5. The exam is based on the lectures and literature.

Grading:

0 - 5

Person responsible:

Leena Syrjälä

Working life cooperation:

None

408016S: Education and Teacher's Work in Change, 5 op**Voimassaolo:** 01.08.2005 -**Opiskelumuoto:** Advanced Studies**Laji:** Course**Vastuuyksikkö:** Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Day, Christopher & Sachs, Judyth (eds.), , 2004

Elbaz-Luwisch, Freema, , 2005

Sugrue, Ciaran & Day, Christopher (eds.), , 2002

Vandenberghe, Roland & Huberman, A. Michael (eds), , 1999

Opintokohteen kielet: Finnish

ECTS Credits:

5 cr

Language of instruction:

Finnish

Timing:

4th year

Learning outcomes:

Having completed the course, the student

- knows how to analyze social and cultural factors that are connected with changes in education and teachers' work
- is able to function in changes actively and in cooperation with different parties
- knows how to describe forms of multiprofession cooperation in the school world and how to take measures to launch cooperation
- knows working methods of cooperation between the home and school and knows how to apply them in her/his work
- knows how to analyse the operation of work community and how to describe the characteristics related to the professional development of a teacher in early stages of her/his working career

Contents:

- school as a field of multiprofessional cooperation
- cooperation between schools and homes
- school as a work community
- identity of a newly qualified teacher

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures and expert visits 22 h, small group sessions in the form of a reading circle 12 h.

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of the whole formed by "Pefagogical Seminar III", "School Work in the Master's Phase" and "Thematic Practice".

Recommended or required reading:

To be agreed on at the beginning of the course.

Assessment methods and criteria:

Participation in the lectures and small group sessions, completion of the learning tasks and passing the literature exams.

Grading:

0 - 5

Person responsible:

Sari Manninen

Working life cooperation:

None

408013S: Master's Thesis, 35 - 40 op

Voimassaolo: 01.08.2005 - 31.07.2016

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

40 cr

Language of instruction:

Finnish or English

Timing:

Master's studies

Learning outcomes:

The student

- is able to write either alone or in pairs an educational thesis that proves familiarity with the thematic area of the thesis and shows an ability for scientific thinking,
- masters the research methods chosen by her/him and shows a readiness for scientific communication
- knows how to assess theses made by others, take part in scientific discussion and defend her/his own thesis

Contents:

The course includes the following:

- presentation of research plan and report
- acquisition and reading of research literature
- familiarisation with research methods
- writing a thesis on an educational topic
- active participation in seminar sessions

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Seminar sessions 40 h, independent work about 1000 h

Target group:

Students in the Faculty of Education

Prerequisites and co-requisites:

Bachelor's Thesis

Recommended optional programme components:

Advanced course in quantitative/qualitative research

The course is part of the Advanced Studies in the major subject.

Recommended or required reading:

Research and methodological literature: refereed publications

Assessment methods and criteria:

Participation in seminar sessions, writing a thesis and its presentation in a seminar session, acting as peer opponent and writing of the maturity test

Grading:

0 - 5

Person responsible:

Hannu Heikkinen and the leaders of seminar groups

Working life cooperation:

None

Other information:

For details on current Bachelor's and Master's thesis groups, see www oulu fi/ktk/opinnaytetyot

408028S: School Work in the Master Phase I, special groups, 5 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Advanced Studies

Laji: Practical training

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

A256404: Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education (Special Groups), 60 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Intermediate Studies

Laji: Study module

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

e1

406020A: Mother Tongue and Literature, 7 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opettajat: Sääsکیlahti, Minna Susanna

Opintokohteen oppimateriaali:

Suojala, Marja & Karjalainen, Maija (toim.), , 2001

Gru#nthal, Satu & Pentikäinen, Johanna (toim.), , 2006

Harmanen, Minna & Siirainen, Mari (toim.), , 2006

Huhtala, Liisi (toim.), , 2003

Opintokohteen kielet: Finnish

ECTS Credits:

7 credits

Language of instruction:

Finnish

Timing:

1st and 2nd year

Learning outcomes:

The aim of studies is to arouse students' interest in language and to make them multiskilled intermediaries of linguistic culture, who possess the competence to develop the linguistic abilities of children. To this end, students familiarize themselves with Finnish and literature as school subjects, together with the contents, methods and background theories of communication teaching, primary level reading and literature.

406020A-01 Literature and reading (3 credits), learning outcomes:

This course focuses on the primary level curriculum and helps students gain an understanding of the role of literature in childhood development and education. Using literary and interpretation pedagogy, a variety of texts are used to develop extensive and manysided reading, literacy and interaction skills.

406020A-02 Language and writing (4 credits), learning outcomes

Having completed the course, the student knows how to apply modern language knowledge to guide children to make observations on language and consciously consider language structure. The student also knows how to guide the children's writing processes in such a way that reading and writing skills are naturally interspersed with school learning as a whole. The student knows how to apply various theories of teaching writing. S/he also knows how to assess the texts produced by children that she takes into account of the age-specific developmental level of the child and the national core curriculum.

Contents:

Finnish Language and Literature comprises two parts:

406020A-01 Literature and Reading

- genres of children's literature
- teaching methods in literature
- supporting the child's literary interests
- folklore
- process reading and strategies of reading

- critical reading
 - pedagogy of literature and reading interpretation
- 406020A-02 Language and Writing
- grammar of Finnish language
 - variation of language
 - methods and practices of teaching language knowledge
 - development of children's writing skills
 - theories of writing: fictive writing, process writing and genre writing
 - evaluation of writing

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

406020A-01 Lectures 10 h, small groups 26 h and independent work 44 h

406020A-02 Lectures 12 h, small groups 26 h and independent work 69 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Introduced by the lecturer of the course at the beginning of the course.

Assessment methods and criteria:

Participation in lectures and small groups and an essay written independently by the student.

Grading:

0-5

Person responsible:

Minna Sääskilähti

Working life cooperation:

None

Other information:

Students whose language of instruction has not been Finnish and whose Finnish language skills are not sufficiently good, are exempted from Finnish studies. Instead, they study a corresponding amount of English and didactics of English language teaching.

*Compulsory***406020A-01: Literature and Reading, 3 op**

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

3 credits

Language of instruction:

Finnish

Timing:

1st study year

Learning outcomes:

This course focuses on the primary level curriculum and helps students gain an understanding of the role of literature in childhood development and education. Using literary and interpretation pedagogy, a variety of texts are used to develop extensive and many-sided reading, literacy and interaction skills.

Contents:

- genres of children's literature
- teaching methods in literature
- supporting the child's literary interests
- folklore
- process reading and strategies of reading
- critical reading
- pedagogy of literature and reading interpretation

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 10 h, small groups 26 h and independent work 44 h.

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Introduced by the lecturer of the course at the beginning of the course.

Assessment methods and criteria:

Participation in lectures and small groups and an essay written independently by the student.

Grading:

0 - 5

Person responsible:

Minna Sääsکیlahti

Working life cooperation:

None

406020A-02: Language and Writing, 4 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

4 credits

Language of instruction:

Finnish

Timing:

2nd year

Learning outcomes:

Having completed the course, the student knows how to apply modern language knowledge to guide children to make observations on language and consciously consider language structure. The student also knows how to guide the children's writing processes in such a way that reading and writing skills are naturally interspersed with school learning as a whole. The student knows how to apply various theories of teaching writing. S/he also knows how to assess the texts produced by children that she takes into account of the age-specific developmental level of the child and the national core curriculum.

Contents:

- grammar of Finnish language
- variation of language
- methods and practices of teaching language knowledge
- development of children's writing skills
- theories of writing: fictive writing, process writing and genre writing
- evaluation of writing

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 12 h, small groups 26 h and independent work 69 h.

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Introduced by the lecturer of the course at the beginning of the course.

Assessment methods and criteria:

Participation in lectures and small groups and an essay written independently by the student.

Grading:

0 - 5

Person responsible:

Minna Sääsکیlahti

Working life cooperation:

None

406021A: Drama Education, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

Finnish. For ITE students, the small group sessions are in English.

Timing:

2nd year

Learning outcomes:

Having completed the course, the student is familiar with the premises of drama pedagogy in basic education. S/he knows how to apply to his work as a teacher the genre of drama and theatre education that s/he learnt in this course.

Contents:

The course deals with drama and theatre as a form of learning and as a method of artistic performance in school.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Small group sessions 24 h and independent work 30 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Heikkinen, H. (2005 tai uudemmat painokset). Draamakasvatus - opetusta, taidetta, tutkimista. You can check for the availability of the literature [here](#).

Assessment methods and criteria:

Participation in contact teaching and as a final project either a drama group work or an independent written work.

Grading:

pass/fail

Person responsible:

Hannu Heikkinen

Working life cooperation:

None

406022A: History, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Asunmaa, Martti , , 1994

Karlen, Arno , , 2000

Löfström, Jan (toim.) , , 2002

Vahtola, Jouko , , 2003

Zetterberg, Seppo et. al. (toim.) , , 2006

Zetterberg, Seppo et. al. (toim.) , , 1988

Opintokohteen kielet: Finnish

ECTS Credits:

3 credits

Language of instruction:

Finnish. For ITE students, the small group sessions are in English.

Timing:

(1st or) 2nd year

Learning outcomes:

Having completed the course, the student has a basic competence to give lessons in history. The student understands what history didactics means and how and why history is taught. The student knows how to plan and implement history teaching using different working methods and tools. S/he knows how to apply several data acquisition methods in the planning of his/her teaching.

Contents:

The special characteristics of history from the viewpoints of school, society and the curriculum and basic teaching competence.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 8 h, small group sessions 12 h, independent work 34 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Jones, A. & Phillips, R. (Eds.) (2000) Issues in History Teaching.

Pendry, A. (1998) History teachers in the making.

Assessment methods and criteria:

Active participation in the course, exam

Grading:

0 - 5

Person responsible:

Jari Honkanen

For ITE students, Gordon Roberts

Working life cooperation:

None

406025A: Mathematics Education: Part I, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

3 credits

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

1st year

Learning outcomes:

After passing this course the student

- is able to plan mathematics teaching which is based on the curriculum and takes into consideration different learners
- is able to explain and evaluate the main goals, contents, assessment and teaching methods of elementary level mathematics
- can critically evaluate the usability of different learning aids and manipulatives in teaching of the elementary level mathematics
- can use a variety of mathematics manipulatives
- is able to show positive attitudes towards mathematics
- can explain some of theories about teaching and learning of mathematics

Contents:

The course includes the following:

- mathematics in the elementary curriculum
- problem based teaching of mathematics
- the concept of number and integer operations
- geometry, measurement and spatial thinking
- rational numbers and fractions
- mathematics learning difficulties

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lecturelike introductions and problem based discussions 32 h, individual work 48 h.

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

Connected with the course Mathematics Education, Part II. Completion of School work in the Bachelor phase is required.

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Told in the first lecture

Assessment methods and criteria:

Voluntary exam, reading and commenting some articles, calculation exercises

Grading:

0 - 5

Person responsible:

Vesa-Matti Sarenius

Working life cooperation:

None

406026A: Mathematics Education: part II, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

2nd year

Learning outcomes:

After passing this course the student:

- is able to apply his/her knowledge of mathematics education and make a mathematics medium term plan and can evaluate the meaning of it in teaching mathematics
- can apply the central goals, contents, teaching methods and assessment to his/her teaching
- can critically evaluate the applicability of different mathematics manipulatives and other teaching materials for teaching
- can apply some theories about mathematics teaching and learning to his/her planning

Contents:

The course includes the following:

- mathematical problem solving
- percentage calculations
- algebraic thinking
- statistics and probability
- assessing mathematics learning
- approximations and mental mathematics

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures/small group sessions 16 h, individual and groupwork 38 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

Mathematics Education: Part I

Recommended optional programme components:

Mathematics Education: Part I

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Told in the first lecture

Assessment methods and criteria:

Voluntary exam, making the medium term plan, calculation exercises

Grading:

0 - 5

Person responsible:

Vesa-Matti Sarenus

Working life cooperation:

None

406027A: Physics and Chemistry, 4 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

4 credits

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

2nd year

Learning outcomes:

Student

- can evaluate the central goals, subject knowledge, teaching methods and assessing of elementary level physics and chemistry and is able to apply it to his/her own teaching
- can judge the applicability of teaching materials of science education
- is able to explain simple everyday phenomena according to physics and chemistry
- is able to plan teaching and evaluation of physics and chemistry on elementary school grades 0-6 and taking different kind of learners, experimental working and integration between different subjects into consideration
- is able to show positive attitudes towards physics and chemistry education

Contents:

The course includes the following:

- the significance of physics and chemistry to mankind and society
- environmental and natural studies and physics and chemistry in Finnish national core curriculum for basic education
- characteristics of natural scientific knowledge
- getting acquainted with teaching methods of natural science
- studying the phenomena, concepts and experimental working of the following topics from the viewpoint of didactics of physics and chemistry education: water, air, space, forms of energy, motion, light, sound, electricity, magnetism, intoxicants and structure of matter

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures and exercises 38 h, individual and group work 70 h.

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Virrankoski, M., Hänninen, K. & Markkanen, T. 2002. Luonnontiedettä luokanopettajille -kemias, fysiikkaa ja tähtitiedettä.

Course material availability can be checked [here](#).

Assessment methods and criteria:

Workshop, essay and voluntary exam

Grading:

0 - 5

Person responsible:

Emilia Manninen and Kaisa Hautala

Working life cooperation:

None

406028A: Biology, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Ahtee, Maija , , 1994

Eloranta, Varpu, Jeronen, Eila & Palmberg, Irmeli (toim.) , , 2005

Harlen, Wynne , , 1996

Opetushallitus , , 2004

Virtanen, Lyyli , , 1989

Wellington, Jerry , , 2000

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

2nd year

Learning outcomes:

Student is able

- to describe the objectives and contents of biology and environmental and nature studies in the basic education curriculum.
- to compare various teaching and learning conceptions in biology and environmental and nature studies.
- to plan, apply and evaluate teaching and learning processes in biology and environmental and nature studies.
- to judge his or her own professional growth as a biology and environmental and nature studies teacher from the viewpoint of environmental education and education for sustainable development.

Contents:

Introduction

- Overview of the aims, contents and methods of completion of the course
- Biology curriculum

Biological basis of life

- Energy flow
- Material cycle
- Photo- and chemosynthesis

Morphology and physiology of plants

- Cells
- Water and nutrient transport
- Plant growth and reproduction

Anatomy and physiology of animals

- Cell and tissues
- Function and regulation of organs and organ systems

Genetics

- Genes and genotypes
- Phenotypes

Organisms and their environment

- Environmental factors
- Relationships between organisms and their environment

Biodiversity

- Biomes and ecosystems
- Phenology

Pollution

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures and group work 16 h, independent work 38 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

National core curriculum for Basic Education (Biology) <http://www.oph.fi/english/page.asp?path=447,27598,37840,72101,72106>

AND

Wynne, H. (latest edition). The teaching of Science in Primary Schools.

OR

Wellington, J. (latest edition). Secondary science. Contemporary issues and practical approaches.

The availability of the literature can be checked from [this link](#).

Assessment methods and criteria:

Active participation in contact teaching and a final exam. The exam can be replaced with some alternative method agreed on separately with the teacher responsible for the course.

Grading:

0 - 5

Person responsible:

Eila Jeronen

Working life cooperation:

None

406029A: Geography, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Haubrich, Hartwig (Hrsg.), , 2006

Opetushallitus, , 2004

Rikkinen, Hannele , , 1997

Rikkinen, Hannele (toim.), , 1998

Tilbury, Daniella & Williams, Michael (eds.), , 1997

Wiegand, Patrick , , 1993

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

1st year

Learning outcomes:

Student is able

- to describe the objectives and contents of geography and environmental and nature studies in the curriculum.
- to interpret geographical information about the natural environment, built environment and cultural environment.
- to plan and apply various teaching methods, and to evaluate teaching, studying and learning processes.
- to develop his/her teaching skills in geography and environmental and nature studies from the viewpoint of environmental education and sustainable development.

Contents:

Introduction

- Overview of the aims, contents and methods of completion of the course
- Geography curriculum

Maps and teaching of maps

- Different maps
- Different approaches to teaching of maps

Space, climate and weather

- Earth in the universe and solar system
- Climate classification
- Weather and its observation

Natural resources and livelihoods

- Organic and inorganic material
- Soil types, rocks, minerals and ores
- Structure of livelihoods

Landscapes and land use

- Topography
- Types of landscapes
- Built environment

Interaction between human beings and the environment

- Environmental relationship between human being and nature
- Sustainable development

Multiculturalism as a thematic entity

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures and group work 16 h, independent work 38 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Cantell, H., Rikkinen, H. & Tani, S. (2007) Maaailma minussa - minä maailmassa. Maantieteen opettajan käsikirja.

The availability of the literature can be checked in [this link](#).

Assessment methods and criteria:

Active participation in contact teaching and a final exam. The exam can be replaced with some alternative method agreed on separately with the teacher responsible for the course.

Grading:

0 - 5

Person responsible:

Eila Jeronen

Working life cooperation:

None

406030A: Health Education, 1 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Kannas, Lasse & Tyrväinen, Heli (toim.), , 2005

Korhonen, Juho et al. (toim.), , 2002

Korhonen, Juho et al. (toim.), , 2000

Opetushallitus, , 2004

Peltonen, Heidi & Kannas, Lasse (toim.), , 2006

Peltonen, Heidi & Kannas, Lasse (toim.), , 2005

Vertio, Harri , , 2003

Opintokohteen kielet: Finnish

ECTS Credits:

1 credit

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

3rd year

Learning outcomes:

Student is able:

- to describe his or her responsibility for her/himself, other people and the environments.
- to construct information and develop skills for planning and implementing teaching situations and environments so that the scientific thinking of a pupil and its development is possible from the individual, interactive, and collaborative perspectives.
- to apply operational teaching methods and support pupils in adapting a healthy lifestyle.

Contents:

Introduction

- Overview of the aims, contents and methods of completion of the course
- The health education curriculum

Basics of health education

- Health and sickness as concepts
- Goals of health education
- Objectives and methods in health education
- Resource criteria in health education
- Evaluation of health skills

Ways of life

- Physical, psychic and social health
- Determinants for health

Structure and functions of the body

- Physical health
- Nutrition
- Exercise
- Rest and sleep
- Sexuality
- Alcohol and drugs

Functions and challenges of children's and youngsters' mental development

Models of behaviour change

Mode of delivery:

Blended teaching

Learning activities and teaching methods:

Lectures and group work 10 h, distance work 17 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Jeronen., E., Välimaa, R., Tyrväinen, H. & Maijala, H. (2009). (Eds.). Terveystietoa oppimaan ja opettamaan. Terveystieteen tutkimuskeskus. Jyväskylän yliopisto. Julkaisuja 4.

The availability of the literature can be checked in [this link](#).

Assessment methods and criteria:

Active participation in contact teaching and a final exam. The exam can be replaced with some alternative agreed on separately with the teacher responsible for the course.

Grading:

0 - 5

Person responsible:

Eila Jeronen

Working life cooperation:

None

406031A: Music, 8 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opettajat: Marja Ervasti

Opintokohteen oppimateriaali:

Alho, Eve, Hautsalo, Hilikka & Perkiö, Soili (toim.), , 1995

Alho, Eve, Hautsalo, Hilikka & Perkiö, Soili (toim.), , 1992

Ervasti, Marja, , 2003

Hyvönen, Leena (1) , , 1995

Opetushallitus, , 2004

Styng, Jorma , , 1998

Styng, Jorma , , 1997

Tenni, Jyrki , , 2004

Opintokohteen kielet: Finnish

ECTS Credits:

8 credits

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

1st and 2nd year

Learning outcomes:

In Music Studies, music education is viewed in the larger framework of cultural and art education. Students make music in groups and acquire the subject knowledge and pedagogical skills necessary for music education in school.

Contents:

Music education comprises the following courses:

1. **Pedagogical Applications of Music Education (3 cr.)** Students acquaint themselves with such pedagogical applications of music education as working with a large musical group and paying attention to different level students. They are also introduced to the contents and methods of the subject through a wide range of activities.
 - Familiarize students with the pedagogical contents and uses of music in primary school through extensive music-making (singing, playing, music and rhythmic exercises as well as musical innovation)
 - Present basic techniques and pedagogical uses of school instruments (percussive instruments, percussion instruments, band instruments, self-made instruments, recorders and kantele (traditional Finnish harp))
 - Music education is a holistic arts and culture-based education which incorporates physical activities, drama, other arts and skills as well as extramusical themes.
2. **Voice and Singing (1 cr.)** Students learn effective use of voice together with various ways of teaching vocal expression and singing. They are also encouraged to use their voice for creative personal expression.
 - Provide practice in the proper use and maintenance of voice, vocal expression and their pedagogical application through singing, speech and play-like exercises.
3. **Listening Education (1 cr.)** Students will be introduced to listening education as a natural ingredient of different ways of working with music. They also familiarize themselves with a range of music cultures, styles and stylistic periods and learn to adopt diverse approaches to music.
 - consists of different music styles and genres
 - Listening education is an integral part of all musical activities and helps to put music in a time and place and to gain an appreciation for culturally different types of music
 - Music is approached by adding such elements to listening as enhance focusing on it (physical, verbal, visual or musical stimuli)
 - Music listening proceeds from experiences and emotions to concepts
4. **Music Theory in Practice (1 cr.)** Students learn to play accompaniment in diverse musical settings. Focusing mainly on free accompaniment, the course helps to advance creative self-expression and the ability to follow music by ear.
 - To offer an introduction to musical notation, chord markings, keys and intervals
 - Practical competence is acquired through instrument playing (piano/guitar)
5. **Accompaniment Instrument / Piano or Guitar (2 cr.)** To familiarize students with different musical notation systems, real chord symbols, different styles of music and accompaniment as well as playing techniques. Group lessons involve directing and accompanying communal singing and music playing.
 - To familiarize students with different musical notation systems, real chord symbols, different styles of music and accompaniment as well as playing techniques
 - Group lessons involve directing and accompanying communal singing and music playing

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Teaching methods are described separately for each specific course (406031A-0X).

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Listed separately for each specific course (406031A-0X).

Assessment methods and criteria:

Detailed separately for each specific course.

Grading:

Detailed separately for each specific course.

Person responsible:

Module convener: Marja Ervasti

Course convener:

1. Paula Rönkkö
2. Paula Rönkkö
3. Paula Rönkkö
4. Markku Pehkonen ja Anu Kemppainen
5. Markku Pehkonen ja Anu Kemppainen

Working life cooperation:

None

Compulsory

406031A-01: Pedagogical Applications of Music Education, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

3 cr

Language of instruction:

Finnish and English

Timing:

1st and 2nd years

Learning outcomes:

Upon completion of the course, the student knows how to design and implement pedagogical applications for music education in the lower grades. S/he knows how to discuss the essential goals, contents and assessment in music education. The student is capable of making music by different working methods.

Contents:

- Familiarize students with the pedagogical contents and uses of music in primary school through extensive music-making (singing, playing, music and rhythmic exercises as well as musical innovation)
- Present basic techniques and pedagogical uses of school instruments (mallet instruments, percussion instruments, band instruments, self-made instruments, recorders and kantele (traditional Finnish harp))
- The student knows how to employ a large music group in her/his teaching and how to take into account pupils of different levels.
- Music education is a holistic arts and culture-based education which incorporates physical activities, drama, other arts and skills as well as extramusical themes.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Small group teaching 40 h and independent studies 41 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of the study module in Music 406031A (8 credits)

Recommended or required reading:

Musiikki kuuluu kaikille. 2009. Koulujen Musiikinopettajat ry. Jyväskylä. Kopijyvä Oy.
 Hyvönen, L. (2002) Musiikin oppiminen taiteen oppimisen kehyksessä. In Outi Saloranta (Ed.)
 Ensimmäiset kouluvuodet. Perusopetuksen vuosiluokkien 1-2 opetus.
 Ervasti, M. 2003. Lorutan laulun, sävellän sillan, piirrän partituurin, äänikuvitan kertomuksen
 -musiikillinen keksintä osana sovellettua orff-pedagogiikkaa. Licentiate thesis. Faculty of Education.
 University of Oulu. (Applicable parts)
 Topical articles and web materials on music education (esim. MOVE, Teacher Training School
 curriculum, core curriculum issued by the National Board of Education)
 Music textbooks by various publishers (eg. WSOY, Otava, Warner-Chappell) with supplementary
 materials.
 Availability of course books can be checked [here](#).

Assessment methods and criteria:

Active participation in contact teaching and independent assignments given during the course

Grading:

pass/fail

Person responsible:

Paula Rönkkö

Working life cooperation:

None

Other information:

The course (3 credits) is divided into three parts which are completed as separate wholes during the first two years of study.

406031A-02: Voice and Singing, 1 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

1 cr

Language of instruction:

Finnish and English

Timing:

1st year

Learning outcomes:

Students learn effective use of voice together with various ways of teaching vocal expression and singing. They are also encouraged to use their voice for creative personal expression.

Contents:

Provide practice in the proper use and maintenance of voice, vocal expression and their pedagogical application through singing, speech and play-like exercises.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Small group teaching 14 h and independent work 13 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of the study module in Music 406031A (8 credits).

Recommended or required reading:

Sing and chorus material representing different styles and genres of music, basic education music textbooks by different publishers (e.g. WSOY, Otava, Warner-Chappell) and supplementary materials to them

Assessment methods and criteria:

Active participation in small group sessions and independent assignments given during the course

Grading:

Pass/fail

Person responsible:

Paula Rönkkö

Working life cooperation:

None

406031A-03: Listening Education, 1 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

1 cr

Language of instruction:

Finnish/English

Timing:

2nd year

Learning outcomes:

Students will be introduced to listening education as a natural ingredient of different ways of working with music. They also familiarize themselves with a range of music cultures, styles and stylistic periods and learn to adopt diverse approaches to music.

Contents:

- Music is approached by adding such elements to listening as enhance focusing on it (physical, verbal, visual or musical stimuli)
- Music listening proceeds from experiences and emotions to concepts

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Small group teaching 14 h and independent work 13 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of the study module in Music 406031A (8 credits).

Recommended or required reading:

Hyvönen, L. (1997) Onko musiikin kuuntelukasvatus musiikin historian opetusta? Musiikkikasvatus 2 (2): 19–33.

Sormunen (Ed.) Musiikkikasvatuksen tutkimus. Jyväskylän yliopiston musiikkitieteen laitoksen julkaisusarja A: tutkielmia ja raportteja 15. 85-95.

Topical articles and online materials

You can check for the availability of the course books [here](#).

Assessment methods and criteria:

Active participation in contact teaching, a concert visit with a review, a pedagogical application

Grading:

pass/fail

Person responsible:

Paula Rönkkö

Working life cooperation:

None

406031A-04: Music Theory in Practice, 1 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

1 cr

Language of instruction:

Finnish/English

Timing:

1st year

Learning outcomes:

The student learns to use and understand concepts and notations in music in the context of listening to and making music.

Contents:

- To offer an introduction to musical notation, chord markings, keys and intervals
- Practical competence is acquired through instrument playing (piano/guitar)

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Contact teaching 14 h and independent work 13 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

No

Recommended optional programme components:

The course is part of the study module Music 4060321A (8 credits). It has a special connection to 406031A-05 Accompaniment Instrument.

Recommended or required reading:

Handouts

Assessment methods and criteria:

Participation in contact teaching and exam

Grading:

0 - 5

Person responsible:

Markku Pehkonen and Anu Kemppainen

Working life cooperation:

None

406031A-05: Accompaniment Instrument, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 cr

Language of instruction:

Finnish/English

Timing:

1st and 2nd years

Learning outcomes:

The course gives the student a competence for accompaniment in various practical music making situations.

Contents:

- To familiarize students with different musical notation systems, real chord symbols, different styles of music and accompaniment as well as playing techniques
- Group lessons involve directing and accompanying communal singing and music playing

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Contact teaching 20 h and independent work 32 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

See "Recommended optional programme components"

Recommended optional programme components:

The course 406031A-05 Music Theory in Practice provides a theoretical basis for instrument studies and is taken partly at the same time.

Recommended or required reading:

Materials related to different music styles and genres, such as textbooks, music books and instrument guides by different publishers.

Styng, J. (1997) Vapaa säestys ja melodiasoitto kitaralla. Opi musiikkia 1.

Styng, J. (1998) Pop/Jazz -improvisaatio kitaralla. Opi musiikkia 2.

Tenni, J. & Varpama, J. (2004) Vapaa säestys ja improvisointi.

You can check for the availability of course books [here](#).

Assessment methods and criteria:

Participation in accompaniment practice and the music playing party

Grading:

0 - 5

Person responsible:

Markku Pehkonen and Anu Kemppainen

Working life cooperation:

None

406032A: Art, 7 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opettajat: Lukkari, Matti Ilmari, Myllykangas Minna

Opintokohteen oppimateriaali:

Hakkola, Kirsti , , 1991

Kaitavuori, Kaija , , 2004

Karppinen, Seija (1) , , 2001

Koskenala, Hanna-Leena & Sabelström-Leppänen, Raija , , 2004

Ojala, Anita , , 2004

Ojala, Anita , , 1999

Opetushallitus , , 2004

Saari, Pirjo , , 2004

Saari, Pirjo , , 2005

Tolonen, Marjatta , , 2006

Tolonen, Marjatta , , 1998

Töyssy, Seppo , , 1999

Wetzer, Hannele , , 2000

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

7 credits

Language of instruction:

Finnish / English

Timing:

1st and 2nd years

Learning outcomes:

The objectives of this study unit are that the student

- is able to design and implement art education in grades 0 - 6
- can apply working methods, data acquisition, interpretation and evaluation skills which are common in visual arts
- is able to evaluate the curricula and apply didactic and pedagogical applications and solutions in art education

Contents:

The teaching in this course is based on the contents areas in the Core Curriculum for Basic Education 2004.

During the visual arts course the student develops her/his visual, didactic and pedagogical thinking by applying the means of visual expressions.

The course consists of the following parts

1. Drawing
2. Painting
3. Ceramics
4. Construction
5. School graphics
6. Environmental aesthetics
7. Media education

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures and small group sessions 91 h, independent work 98 h.

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

To be agreed on at the beginning of the course

Assessment methods and criteria:

Active participation in contact teaching, completing assignments and portfolio

Grading:

0 – 5

Person responsible:

Minna Myllykangas and Tapio Tenhu

Working life cooperation:

None

Compulsory

406032A-01: Drawing, 1 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

406032A-02: Painting, 1 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

406032A-03: Ceramics, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406032A-04: Building, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406032A-05: School graphic, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406032A-06: Environmental aesthetic, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406032A-07: Media education, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies

Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406035A: Physical Education, 7 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opettajat: Niina Loukkola

Opintokohteen oppimateriaali:

Heikinaro-Johansson, Pilvikki, Huovinen, Terhi & Kytökorpi, Lea (toim.), , 2003

Opetushallitus, , 2004

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

7 cr

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

1st and 2nd year

Learning outcomes:

The student

- is able to name the objectives and contents of physical education
- is able to describe different methods of teaching physical education
- develops sufficient skills to teach physical education successfully in grades 0-6 of basic education

Contents:

- 406035A-04 Lectures, adventure, track and field (1st year, autumn)
- 406035A-05 Indoor ball games, basic gymnastics (1st year, autumn)
- 406035A-06 Skiing, rhythmic gymnastics (1st year, spring)
- 406035A-07 Outdoor ball games (1st year, spring)
- 406035A-08 Orienteering, artistic gymnastics (2nd year, autumn)
- 406035A-09 Skating, swimming (2nd year, spring)
- 406035A-10 SkiAgiFun, the final assignment in p.e. (2nd year, spring)
- Exam

Orientation Towards Didactics and Pedagogy in Physical Education

- societal justifications of physical education
- physical education = education for physical exercise and education through physical exercise
- latest research in the field of physical exercise and physical education
- curriculum and the process of physical education
- approaches towards teaching of physical education
- adventure education

School Gym as a Physical Education Environment (46 h)

- ball games, including ball handling, basketball, volleyball and floorball
- gymnastics
- exercises to develop basic motor skills, physical exercise and learning

Snow, Ice, and Water as Physical Education Environments

- skiing
- skating
- swimming ability must be demonstrated

Immediate Environment of the School During the Autumn and Spring

- athletics
- outdoor ball games, including football and baseball (pesäpallo)
- orienteering, hiking

Independent Work in Physical Education (LOTTO)

The student keeps a physical education diary

- advance assignments in physical education (2-5 h)
- summaries of actual lessons (5-10 h)
- planning of teaching practice for their own group (2 h)
- preparing for the exam (10 h)
- "sportfolio" (20 h)
- learning and practicing swimming (0-20 h)
- practicing of physical exercise skills (20-40 h)
- taking part in health-oriented exercising (4-10 h)
- getting acquainted with the sports culture and physical education events at school (8-20 h)
- compiling a source list of teaching materials for physical education

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 8 h, practical exercises 83 h, exam, written essay

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Heikinaro-Johansson P. (Eds.) (2007) Näkökulmia liikuntapedagogiikkaan, parts.

Peruskoulun opetussuunnitelman perusteet, liikunnan osuus.

Opetushallitus ja NuoriSuomi 2008 Fyysisen aktiivisuuden suositus kouluikäisille 7-18 vuotiaille.

Ojanaho M., et al. 2003 Sportfolio - liikunnan opetuksen aapinen. Materials handed out in the exercises.

The availability of the literature can be checked in [here](#).

Assessment methods and criteria:

Active participation in the small groups, examination in the 2nd year, submission of the portfolio in the 2nd year, individual tasks

Grading:

Pass/fail

Person responsible:

Ari Rahikkala and Susanna Takalo

Working life cooperation:

None

Compulsory

406035A-04: Lectures, adventure, track and field, 1 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406035A-05: Indoor ball games, basic gymnastics, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406035A-06: Skiing, rhythmic gymnastics, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406035A-07: Outdoor ball games, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406035A-08: Orienteering, artistic gymnastics, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406035A-09: Skating, swimming, 1 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406035A-10: SkiAgiFun, the final assignment in p.e., 1 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

408029S: School Work in the Master Phase II, special groups, 3 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Advanced Studies

Laji: Practical training

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406023A: Religion, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Kallioniemi, Arto & Luodeslampi, Juha (toim.), , 2005

Pyysiäinen, Markku & Seppälä, Jarkko (toim.), , 1998

Watson, Brenda , , 1993

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

2nd year

Learning outcomes:

The aim of the module is orientate students towards the development of teacher's intercultural professional competence in teaching the Religious Education so that they can teach, plan and evaluate the pedagogical elements needed in the teaching of the subject in context of the Finnish Elementary School by

- giving basic knowledge about the goals, contents and methods of RE in the Finnish elementary school
- developing students capacity to recognize and deepen his/her knowledge, understanding and perspective into the teachers professional competence in RE
- to develop the larger frame of reference and understanding in the field of RE
- to develop the capacity to evaluate his/her professional progress as a professional of RE at school

Contents:

- What is religious education at school (in the Finnish society and cultural context)
- What is religion and its meaning
- Religion as a phenomenon of the human growth and development
- The didactic in the religious education
- Multicultural and intercultural perspectives in religious education at school
- Intercultural competence and sensitivity as a part of the teacher's professional competence

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 8 h, workshops 14 h, students active independent studies 32 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

No

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

OPS 2004: www.edu.fi ,

Watson, Brenda (2006) The effective teaching of religious education / Brenda Watson and Penny Thompson. (2nd ed.) Harlow Pearson Education, Longman. (also the 1st ed in 1993)

Pedagogies of Religious Education (2006) Michael Grimmit (Ed.) Great Wakering, Essex. UK.

Kallioniemi A. & Luodeslampi J. Toim. (2005) Uskonto uudella vuosituuhannella. Kirjapaja. Helsinki.

Kurssikirjojen saatavuuden voi tarkastaa [tästä linkistä](#).

Literature (in English): Introduced by the M.Ed. lecturers at the beginning of the course.

Assessment methods and criteria:

Active studying in lectures and workshops, presentation in workshop, essay

Grading:

0 - 5

Person responsible:

Markku Salakka

Working life cooperation:

No

406024A: Ethics, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Airaksinen, Timo , , 1987

Kamppinen, Matti (toim.) , , 1987

Laurila, Aarne (toim.) , , 1979

Niiniluoto, Ilkka , , 1984

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

(1st or) 2nd year

Learning outcomes:

The aim of the module is orientate students towards the development of teacher's intercultural professional competence in teaching the Philosophy of Life so that they can teach, plan and evaluate the pedagogical elements needed in teaching of the subject in context of the Finnish Elementary School.

Contents:

Philosophy of Life as a subject of the Finnish Elementary School, the history, content and the ethical statements of the subject in Finland, the practical arrangements of the teaching, philosophy of life, its structure and its relation to human action, ethics, didactics in the subject

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

lectures 8 h, workshops 14 h, independent work 32 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

POPS 2004: www.edu.fi, Juuso, Hannu (2007) Child, philosophy and education [Elektroninen aineisto] : discussing the intellectual sources of Philosophy for Children Diss. Oulun yliopisto, kasvatustieteiden tiedekunta, kasvatustieteiden ja opettajankoulutuksen yksikkö. <http://herkules oulu.fi/isbn9789514285509/>, Studies in philosophy for children (1992) A. M. Sharp & R. F. Ree. Temple University Press. Philadelphia. The availability of the literature can be checked in [this link](#).

Assessment methods and criteria:

Active participating in lectures and workshops, presentation in workshop, essay

Grading:

0 - 5

Person responsible:

Markku Salakka

Working life cooperation:

None

Other information:

Philosophy of Life is mutually optional with religion.

406033A: Crafts/Textile Work and Technology, 7 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opettajat: Marjut Sarkkinen

Opintokohteen oppimateriaali:

Hyvönen, Leena & Lindfors, Eila (toim.), , 2001
 Kantola, Jouko & Kananoja, Tapani (eds), , 2002
 Pirjo Karhu, Maija Malmström, Tuula Mannila, , 2002
 Kojonkoski-Rännäli, Seija , , 1998
 Kullas, Sampsa & Pelkonen, Marja-Leena (eds.), , 2005
 Opetushallitus, , 2004
 Suojanen, Ulla , , 1993
 Tapaninen, Reino (toim.), , 2002
 Opintokohteen kielet: Finnish
 Voidaan suorittaa useasti: Kyllä

ECTS Credits:

7 credits

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

1st and 2nd years

Learning outcomes:

The student achieves a basic competence to teach handicrafts in grades 0-6 of basic education and is aware of the characteristics of craft science and crafts, arts and technology education that provide the scientific basis of textile work .

Contents:

Crafts/Textile Work and Technology studies comprise three courses:

1. **User-centered design and production in solving crafts and technology problems (2 cr)** This course familiarizes students with user-centered design and problem solving in crafts and technology.
2. **Material, sewing and clothing technology (3 cr)** In material technology, students consider textiles in terms of their fiber material and fabric structure and as products. The also study the basics of sewing and clothing technology.
3. **Pedagogical and didactic considerations (2 cr)** Product design, manufacture and evaluation processes are viewed within the framework of crafts, technology and art education.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Specified separately for each specific course.

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

Specified separately for each specific course.

Assessment methods and criteria:

Specified separately for each specific course.

Grading:

Specified separately for each specific course.

Person responsible:

Marjut Sarkkinen

Working life cooperation:

None

406033A-01: User-Centred Design and Manufacture as an Approach to Crafts and Technology Problems, 3 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 cr

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

1st year

Learning outcomes:

- The student knows how to apply and introduce a user-centred design approach.
- The student knows how to produce products suitable for crafts activities, technological problem solving and children's world of crafts.
- The student knows how to document the progress of her/his assignment in a portfolio.

Contents:

The following things are done in the course:

- various small prototype products are designed and manufactured collaboratively
- the theoretical contents and the practical process are documented and analysed in a portfolio

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 8 h, small group teaching 31 h and independent work 39 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of the Crafts/Textile Work and Technology 406033A module.

Recommended or required reading:

Karhu, P., Malmström, M. & Mannila, T. (2002) Hyvä sauma.

Kojonkoski-Rännäli, S. (1998) Työ tekijäänsä kiittää – totta toinen puoli. Turun yliopisto. Kasvatustieteiden julkaisusarja A:189

Suojanen, U. (1993) Käsityökasvatuksen perusteet.

Lindfors, E. (2001) Taide ja teknologia – näkökulmia käsityökasvatuksen tulevaisuuteen. In L. Hyvönen & E. Lindfors (Eds.) Tehdään yhesä! Taide- ja taitokasvatuksen tulevaisuus. Oulun yliopisto. Kasvatustieteiden tiedekunta. Selosteita ja katsauksia 1/2001, 85–96.

Learning materials as applicable.

Availability of course literature can be checked [here](#).

Assessment methods and criteria:

The studies are based on large and small group teaching and independent study, and partly on optional workshops. Completion of the studies requires active participation. Both the theoretical and the practical studies are documented in a partly digital and partly 3-dimensional pedagogical portfolio.

The assessment is carried out collaboratively by peers, self and teacher. The final projects of the course and the teaching portfolio are assessed on the basis of agreed criteria.

Grading:

0 - 5

Person responsible:

Marjut Sarkkinen

Working life cooperation:

None

406033A-02: Materials, Sewing and Clothing Technology, 2 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

3 cr

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

1st year

Learning outcomes:

The student knows how to

- classify a textile as a fibre, cloth and product
- put into use the basics of sewing and clothing technology

Contents:

- A piece of clothing is made from an elastic material, while the life span of another piece of clothing is prolonged by fixing it.
- The student's own learning is analysed from the theoretical and practical points of view by means of a portfolio.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 6 h, small-group work 20 h and independent work 26 h.

Target group:

Primary teacher students

Prerequisites and co-requisites:

No

Recommended optional programme components:

The course is part of the Crafts/Textile Work and Technology 406033A module.

Recommended or required reading:

Karhu, P., Malmström, M. & Mannila, T. (2002) Hyvä sauma.

Kojonkoski-Rännäli, S. (1998) Työ tekijäänsä kiittää - totta toinen puoli.

Suojanen, U. (1993) Käsityökasvatuksen perusteet.

Lindfors, E. (2001) Taide ja teknologia - näkökulmia käsityökasvatuksen tulevaisuuteen. In L. Hyvönen & E. Lindfors (Eds.) Tehdään yhesä! Taide- ja taitokasvatuksen tulevaisuus. Oulun yliopisto. Kasvatustieteiden tiedekunta. Selosteita ja katsauksia 1/2001, 85-96.

Learning materials as applicable.

The availability of course literature can be checked [here](#).

Assessment methods and criteria:

The studies are based on large and small group teaching and independent study, and partly on optional workshops. Completion of the studies requires active participation. Both the theoretical and the practical studies are documented in a partly digital and partly 3-dimensional pedagogical portfolio.

The assessment is carried out collaboratively by peers, self and teacher. The final projects of the course and the teaching portfolio are assessed on the basis of agreed criteria.

Grading:

0 - 5

Person responsible:

Marjut Sarkkinen

Working life cooperation:

None

406033A-03: Pedagogical and Didactic Questions, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 cr

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

2nd year

Learning outcomes:

The student knows how to identify and use the process of designing, manufacturing and evaluating a product in the frame of reference of crafts, technology and art education.

Contents:

- Becoming aware of problem-centred learning and teaching in the crafts lectures, small groups and embroidery technique exercises
- The students analyses what s/he has learnt in the pedagogical part of the portfolio

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 6 h, small-group teaching 20 h and independent work 26 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of the Crafts/Textile Work and Technology 406033A module.

Recommended or required reading:

Lindfors, E. (2001) Taide ja teknologia - näkökulmia käsityökasvatuksen tulevaisuuteen. In L. Hyvönen & E. Lindfors (Eds.) Tehdään yhesä! Taide- ja taitokasvatuksen tulevaisuus. Oulun yliopisto. Kasvatustieteiden tiedekunta. Selosteita ja katsauksia 1/2001, 85-96.

Perusopetuksen opetussuunnitelman perusteet: Käsityö. 2004.

Tapaninen, R. (toim.) (2002) Peruskoulun käsityön opetustilojen suunnitteluopas. Tekninen työ ja tekstiilityö

Learning materials as applicable.

You can check for the availability of course literature [here](#).

Assessment methods and criteria:

The studies are based on large and small group teaching and independent study, and partly on optional workshops. Completion of the studies requires active participation. Both the theoretical and the practical studies are documented in a partly digital and partly 3-dimensional pedagogical portfolio.

The assessment is carried out collaboratively by peers, self and teacher. The final projects of the course and the teaching portfolio are assessed on the basis of agreed criteria.

Grading:

0 - 5

Person responsible:

Marjut Sarkkinen

Working life cooperation:

None

406034A: Crafts/Technical Work and Technology, 7 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Aadeli, Sirkka et al. (toim.), , 2004

Bendix, Friedrich , , 1974

Gibilisco, Stan , , 2006

Grönman, Olavi et al. (toim.), , 1989

Häti-Korkeila, Marjatta , , 1985

Kemppainen, Taisto (toim.), , 1978

Lavonen, Jari et al. (toim.), , 1995

Lavonen, Jari et al. (toim.), , 1997

Lindh, Matti , , 1985

Lindh, Matti , , 1990

Lindh, Matti (toim. & piirt.), , 1988

Norman, Eddie et al. (eds.), , 1995

Norman, Eddie et al. (eds.), , 2000

Ojala, Erkki & Räsänen, Jaakko (toim.), , 1990

Saari, Jorma , , 1982

Sahi, Timo et al. (toim.), , 2002

Scherz, Paul , , 2007

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

7 cr

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

1st and 2nd years

Learning outcomes:

Having completed the studies student will know how to

- use the most common machines and equipment which are needed in machining wood, plastic and metal in primary school technical work.
- teach the safe use of the most common technical work hand tools to primary school children.
- apply the basics of mechatronics in primary school technical work.
- apply the basics of electronics in primary school technical work.
- design, implement and evaluate small-scale ranges of themes from the viewpoint of technology education in primary school technical work.

Contents:

The studies comprise three courses:

- Traditional Handicrafts in the Context of Technical Work (3 cr)
- Mechatronics Applications (2 cr)
- Electronics Applications (2 cr)

The emphasis in the first course is on traditional handicrafts. Through lectures and exercises students familiarize themselves with common materials used in technical work and learn how to machine them. Students learn to teach the safe use of most common technical work hand tools and implement simple theme works in primary school technical work. Work is based on individual design.

Mechatronics Applications focuses on the applications of basic mechatronic principles and their use in technical work in primary school. Students learn to combine mechanics and electricity into technological wholes by designing, experimenting and constructing. Experiments and constructions are problematized in textual outputs.

The aim of Electronics Applications is to guide the students towards an understanding of the fundamental principles of electrics and electronics through individual design, experimentation and construction. The students' pedagogical competence is developed with the primary school pupil in mind.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

- 406033A-01 Traditional Handicrafts in Technical Work Context: lectures 6 h ja small group sessions 33 h
- 406033A-02 Mechatronics Applications: lectures 4 h ja small group sessions 22 h
- 406033A-03 Electronics Applications: lectures 6 h ja small group sessions 20 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of "Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education".

Recommended or required reading:

To be agreed on at the beginning of the course.

Assessment methods and criteria:

Active participation in contact teaching, practical exercises and textual outputs.

Grading:

0 - 5

- 1) Mainly numerical assessment, partly pass/fail.
- 2) The written and/or online materials produced in the exercises are assessed. Attention is paid to factual content and didactic issues. Instead of producing materials, the study modules can be passed by sitting an exam based on a corresponding amount of literature and the written materials given in the lectures. Agreement is made separately on substitutive ways to pass the course.

3) Concrete materials produced in the exercises are assessed numerically. The assessment pays attention to the pedagogical value and functional and aesthetic aspects of the objects.

4) The ratio between concrete and written assessment is 2:1.

Person responsible:

Jaakko Nykänen

Working life cooperation:

None

Compulsory

406034A-01: Traditional Handicrafts in the Context of Technical Work, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

3 cr

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

1st year

Learning outcomes:

The uniform learning goals are to be found in the description for the main code (406034A).

Contents:

The emphasis is on traditional handicrafts. Through lectures and exercises students familiarize themselves with common materials used in technical work and learn how to machine them. Students learn to teach the safe use of most common technical work hand tools and implement simple theme works in primary school technical work. Work is based on individual design.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 8 h ja small group sessions 34 h

Target group:

Primary teacher students (apart from Technology Oriented)

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of the Crafts/Technical Work and Technology 406033A module.

Recommended or required reading:

The study materials are indicated in the general description for Technical Work.

Assessment methods and criteria:

Active participation in contact teaching, practical exercises and textual outputs.

Grading:

0 - 5

1) Mainly numerical assessment, partly pass/fail.

2) The written and/or online materials produced in the exercises are assessed. Attention is paid to factual content and didactic issues. Instead of producing materials, the study modules can be

passed by sitting an exam based on a corresponding amount of literature and the written materials given in the lectures. Agreement is made separately on substitutive ways to pass the course.

3) Concrete materials produced in the exercises are assessed numerically. The assessment pays attention to the pedagogical value and functional and aesthetic aspects of the objects.

4) The ratio between concrete and written assessment is 2:1.

Person responsible:

Jaakko Nykänen and Janne Marjamaa

Working life cooperation:

No

406034A-02: Applications of mechatronics, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 cr

Language of instruction:

Finnish. For ITE students, the small group sessions are in English.

Timing:

1st year

Learning outcomes:

Common goals for the study module are to be found in the description of the main code 406034A (in the case of the technologically oriented group, in the description of the main code 406040A).

Contents:

The course focuses on the applications of basic mechatronic principles and their use in technical work in primary school. Students learn to combine mechanics and electricity into technological wholes by designing, experimenting and constructing. Experiments and constructions are problematized in textual outputs.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 4 h ja small group sessions 24 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of the Crafts/Technical Work and Technology 406033A module.

Recommended or required reading:

The learning materials are listed in the general description for Technical Work.

Assessment methods and criteria:

Active participation in contact teaching, practical exercises and written outputs.

Grading:

0 - 5

1) Mainly numerical assessment, partly pass/fail.

- 2) The written and/or online materials produced in the exercises are assessed. Attention is paid to factual content and didactic issues. Instead of producing materials, the study modules can be passed by sitting an exam based on a corresponding amount of literature and the written materials given in the lectures. Agreement is made separately on substitutive ways to pass the course.
- 3) Concrete materials produced in the exercises are assessed numerically. The assessment pays attention to the pedagogical value and functional and aesthetic aspects of the objects.
- 4) The ratio between concrete and written assessment is 2:1.

Person responsible:

Jaakko Nykänen and Janne Marjamaa

Working life cooperation:

None

406034A-03: Applications of Electronics, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 cr

Language of instruction:

Finnish. For ITE students, small group teaching is in English.

Timing:

2nd year

Learning outcomes:

The uniform goals for the study module can be found in the description of the main code 406034A (in the case of technology oriented primary teacher education, in the description for 406040A).

Contents:

The course aims to guide the students towards an understanding of the fundamental principles of electrics and electronics through individual design, experimentation and construction. The students' pedagogical competence is developed with the primary school pupil in mind.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 6 h ja small group teaching 22 h

Target group:

Primary teacher students

Prerequisites and co-requisites:

None

Recommended optional programme components:

The course is part of the Crafts/Technical Work and Technology 406033A module.

Recommended or required reading:

The learning materials are indicated in the general description for Technical Work.

Assessment methods and criteria:

Active participation in contact teaching, practical exercises and textual outputs.

Grading:

0 - 5

1) Mainly numerical assessment, partly pass/fail.

- 2) The written and/or online materials produced in the exercises are assessed. Attention is paid to factual content and didactic issues. Instead of producing materials, the study modules can be passed by sitting an exam based on a corresponding amount of literature and the written materials given in the lectures. Agreement is made separately on substitutive ways to pass the course.
- 3) Concrete materials produced in the exercises are assessed numerically. The assessment pays attention to the pedagogical value and functional and aesthetic aspects of the objects.
- 4) The ratio between concrete and written assessment is 2:1.

Person responsible:

Jaakko Nykänen and Janne Marjamaa

Working life cooperation:

None

Tutkintorakenteisiin kuulumattomien opintokokonaisuuksien ja -jaksojen kuvaukset

413031S: Advanced course in qualitative research, 5 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opettajat: Anu Alanko

Opintokohteen kielet: Finnish

Leikkaavuudet:

408517S-02 Qualitative Methodology 5.0 op

ECTS Credits:

5 cr

Language of instruction:

Finnish

Timing:

4th year

Learning outcomes:

Having completed the course, the student

- knows how to analyse and interpret typical educational and psychological research data
- knows how to assess the credibility, reliability and ethicality of her/his own research and research done by others

Contents:

Course is divided into two parts:

413031S-01 2.1 Lectures, 2 credits

413031S-02 2.2 Exercises, 3 credits

- meaning of different paradigms in the analysis and interpretation of qualitative research data
- content analysis as a basic form in the analysis of qualitative research data
- different ways to read data in, for instance, design or action studies, ethnographic and narrative research and discourse analysis
- proving credibility in qualitative research
- research reporting in qualitative research
- ethical issues in qualitative research

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 22 h, small group sessions 16 h

Target group:

Students pursuing Advanced Studies in Education/ Music Education

Prerequisites and co-requisites:

Basic course in qualitative research 5 cr.

Recommended optional programme components:

Master's Thesis

Recommended or required reading:

Heikkinen, H. L. T., Rovio, E. & Syrjälä, L. (toim.) (2007) Toiminnasta tietoon. Toimintatutkimuksen menetelmät ja lähestymistavat.

OR

Lappalainen, S. Hynninen, P. Kankkunen, T. Lahelma, E. & Tolonen. T. (2007) Etnografia metodologiana. Lähtökohtana koulutuksen tutkimus.

OR

Lichtman, M. (2012) Qualitative Research in Education. A User's Guide.

OR

Creswell, J. W. (ed.) (2006) Qualitative Inquiry and Research Design: Choosing Among Five Approaches (revised edition)

Course material availability can be checked [here](#).

Assessment methods and criteria:

Exam, active participation in small group sessions, an essay

Grading:

0 - 5

Person responsible:

Leena Syrjälä

Working life cooperation:

No

Compulsory

413031S-01: Advanced course in qualitative research, lectures and literature, 2 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Advanced Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

413031S-02: Advanced course in qualitative research, exercises, 3 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Advanced Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

413030S: Advanced course in quantitative research, 5 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opettajat: Peltonen, Jouni Aslak

Opintokohteen kielet: Finnish

Leikkaavuudet:

408517S-01 Quantitative Methodology 5.0 op

ECTS Credits:

5 cr

Language of instruction:

Finnish

Timing:

4th year

Learning outcomes:

Having completed the course, the student

- knows how to analyse and interpret typical educational and psychological research data
- knows how to assess the credibility, reliability and ethicality of her/his own research and research done by others

Contents:

Course is divided into two parts:

413030S-01 1.1 Lectures, 3 credits

413030S-02 1.2 Exercises, 2 credits

- statistical testing
- classic multivariate methods
- modelling by means of linear structural equations
- publishing the results of statistical methods of analysis in a research report

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 22 h, small group sessions 16 h

Target group:

Students pursuing Advanced Studies in the Faculty of Education

Prerequisites and co-requisites:

Basic course in quantitative research 5 cr.

Recommended optional programme components:

Master's Thesis

Recommended or required reading:

Metsämuuronen, J. (2003) Tutkimuksen tekemisen perusteet ihmistieteissä (sivut 273-764)

OR

Kerlinger, F. & Lee, H. (2000) Foundations of behavioral research. Fourth edition.

Course material availability can be checked [here](#).**Assessment methods and criteria:**

Assignments, active participation in small group sessions

Grading:

0 - 5

Person responsible:

Jouni Peltonen

Working life cooperation:

None

*Compulsory***413030S-01: Advanced course in quantitative research, lectures and literature, 2 op****Voimassaolo:** 01.08.2011 -**Opiskelumuoto:** Advanced Studies**Laji:** Partial credit**Vastuuyksikkö:** Faculty of Education**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**413030S-02: Advanced course in quantitative research, exercises, 3 op****Voimassaolo:** 01.08.2011 -**Opiskelumuoto:** Advanced Studies**Laji:** Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

408019S: Basics of educational administration, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 cr

Language of instruction:

Finnish

Timing:

4th or 5th year

Learning outcomes:

Upon completion of the study module, the student

- knows the main acts and decrees governing educational administration as well as their contents
- knows how to apply educational administration legislation into practice at their own level of education
- knows how to use the Finlex software.

Contents:

The course aims to give the student a mastery of the basic legislation governing school administration and teaching as well as work as a civil servant in public administration. In addition, the student will gain an understanding of her/his rights in the teaching profession and knows how to seek for more information if necessary. During the course, the student is introduced to the administration system and work as a civil servant within the framework of the duties and functional possibilities set by current legislation and standards.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures and exam 16 h, small-group work and an assignment 4 h.

Target group:

Primary teacher students, early childhood education students

Prerequisites and co-requisites:

None

Recommended optional programme components:

None

Recommended or required reading:

To be announced at the start of the course

Assessment methods and criteria:

Face-to-face teaching and individual tasks if any

Grading:

pass/fail

Person responsible:

Leena Syrjälä

Working life cooperation:

None