

Opasraportti

FTech - Architecture (2018 - 2019)

Tutkintorakenteet

Master's Degree in Architecture / MSc. (Arch)

Tutkintorakenteen tila: published

Lukuvuosi: 2018-19

Lukuvuoden alkamispäivämäärä: 01.08.2018

Master's Degree in Architecture / MSc. (Arch)

Basic Modules (vähintään 30 op)

Design-led Urban Renewal

A410224: Design-led Urban Renewal, 30 op

Sustainable Built Environment 1

A410225: Sustainable Built Environment 1, 30 op

Complementary modules (vähintään 30 op)

Design of Public Buildings 1

A410249: Design of Public Buildings 1, 15 op

Design of Public Buildings 2

A410250: Design of Public Buildings 2, 15 op

Compulsory courses

453533A: Large scale structures, 5 op

455517S: Architectural Lighting, 5 op

455517A: Interior Design, 5 - 10 op

Sustainable Built Environment 2

A410251: Sustainable Built Environment 2, 15 op

Compulsory

453512A: Architectural Construction, Professional Skills, 10 op

454540A: Varying Courses of Urban Design, 2 - 10 op

453513S: Energy Efficient Building, studio course, 5 op

Restoration

A410252: Restoration, 15 op

Compulsory

451515S: Restoration, 15 op

Advanced modules (vähintään 30 op)

Strategic Urban Planning

A410275: Strategic Urban Planning, 30 op

Compulsory

454505S: Municipal Planning, 15 op

454560S: Extension Course / Urban Design, 5 - 10 op

451560S: Research and Theory of Architecture, 2 - 10 op

450506A: Practical Training in Architect's Office, 5 op

450502A: Excursion Abroad, 2 op

Advanced Architectural Design

A410276: Advanced Architectural Design, 30 op

Compulsory courses

452505S: International Studio, 15 op

455561S: Advanced Studies in Architectural Design, 2 - 10 op

451560S: Research and Theory of Architecture, 2 - 10 op

450506A: Practical Training in Architect's Office, 5 op

450502A: Excursion Abroad, 2 op

Master's Thesis (vähintään 30 op)

450099S: Master's Thesis, 30 op

450014S: The Maturity Test for Master's Degree, 0 op

Optional Studies

450000P: Activities in positions of responsibility and student associations, 1 - 10 op

300002M: Advanced Information Skills, 1 op

451540A: History of Architecture and renovation, varying courses, 2 - 10 op

453540A: Varying Courses of Architectural Construction, 2 - 10 op

452550S: Varying Courses of Contemporary Architecture, 2 - 10 op

452540A: Varying Courses of Contemporary Architecture, 2 - 10 op

454550S: Varying Courses of Urban Design, 2 - 10 op

454540A: Varying Courses of Urban Design, 2 - 10 op

453551S: Varying courses in Architectural Construction, 2 - 10 op

451551S: Varying courses in History of Architecture and Renovation, 2 - 10 op

Master's Degree Programme in Architecture Design

Tutkintorakenteen tila: published

Lukuvuosi: 2018-19

Lukuvuoden alkamispäivämäärä: 01.08.2018

Master's Degree Programme in Architectural Design 120 ECTS

Basic Module (vähintään 30 op)

A410224: Design-led Urban Renewal, 30 op

Complementary modules (vähintään 30 op)

A410249: Design of Public Buildings 1, 15 op

A410250: Design of Public Buildings 2, 15 op

Compulsory courses

453533A: Large scale structures, 5 op

455517S: Architectural Lighting, 5 op

455517A: Interior Design, 5 - 10 op

Advanced module (vähintään 30 op)

A410276: Advanced Architectural Design, 30 op

Compulsory courses

452505S: International Studio, 15 op

455561S: Advanced Studies in Architectural Design, 2 - 10 op

451560S: Research and Theory of Architecture, 2 - 10 op

450506A: Practical Training in Architect's Office, 5 op

450502A: Excursion Abroad, 2 op

Master's Thesis (vähintään 30 op)

450099S: Master's Thesis, 30 op

450014S: The Maturity Test for Master's Degree, 0 op

Elective studies

List of optional courses which may be included in the architect's degree when available within the year plan of the school

900020Y: Finnish for Advanced Students, 4 op

900019Y: Finnish for Foreigners (beginners), 2 op

900021Y: Finnish for Foreigners, Beginners 3, 6 op

900022Y: Finnish for Foreigners, Intermediate 1, 2 op

900016Y: Intermediate Finnish Course 2, 5 op

451515S: Restoration, 15 op

900023Y: Structures of the Finnish Language, 4 op

900017Y: Survival Finnish, 2 op

900018Y: Survival Finnish (extended), 4 op

452550S: Varying Courses of Contemporary Architecture, 2 - 10 op

454550S: Varying Courses of Urban Design, 2 - 10 op

453551S: Varying courses in Architectural Construction, 2 - 10 op

451551S: Varying courses in History of Architecture and Renovation, 2 - 10 op

Degree programme in Architecture, B.Sc.

Tutkintorakenteen tila: published

Lukuvuosi: 2018-19

Lukuvuoden alkamispäivämäärä: 01.08.2018

Degree programme in Architecture, B.Sc.

Basic and Subject Studies (vähintään 120 op)

A410120: Basic and Intermediate Studies, Architecture, 120 op

Compulsory courses

- 450511P: Orientation, 1 op
- 450521P: Computer Aided Design I, 5 op
- 450555P: RI Revit basics, 2,5 op
- 450556P: AI ArchiCAD basics, 2,5 op
- 451535P: History of Architecture I, lecture course, 4 op
- 451536P: History of Architecture I, studio course, 6 op
- 452525P: Contemporary Architecture I, elements, 7 op
- 452526P: Contemporary Architecture I, basic course, 8 op
- 453523P: Basics of Architectural Construction, lecture course, 5 op
- 453524P: Basics of Architectural Construction, studio course 1, 3 op
- 453525P: Basics of Architectural Construction, studio course 2, 4 op
- 453532P: Wooden Structures, 2 op
- 466102A: Introduction to structural design, 3 - 5 op
- 454521P: History of Urban Design, 5 op
- 455501P: Basics of Design, 5 op
- 455511P: Visual Arts I, 5 op
- 455512P: Visual Arts II, 3 op
- 451537A: History of Architecture II, lecture course, 3 op
- 451538A: History of Architecture II, studio course, 5 op
- 452523A: Contemporary Architecture II, elements, 7 op
- 452528A: Contemporary Architecture II, basics, 8 op
- 456502A: Renovation of Apartment Buildings, 5 op
- 454501A: Urban Design, seminar course, 5 op
- 454523A: Neighborhood Design, 5 op
- 451504A: History of Architecture III, 3 op

Select second domestic language

- 901046Y: Second Official Language (Swedish), Written Skills, 1 op
- 901047Y: Second Official Language (Swedish), Oral Skills, 1 op
- 900081Y: Second Official Language (Finnish), Written Skills, 1 - 2 op
- 900082Y: Second Official Language (Finnish), Oral Skills, 1 - 3 op

Select courses in one foreign language, totaling 6 cr

- 903012P: Technical German 3, 6 op
- 904054P: Technical Russian 1, 7,5 op
- 902151Y: English for Architecture (ArkTK), 2 - 3 op
- 902152Y: English for Urban Planning (ArkTK), 2 - 3 op

Orientation Module, Architecture (vähintään 40 op)

A410121: Orientation Module, Architecture, 40 op

Compulsory courses

- 454504A: Town Planning, 10 op
- 452507A: Housing Design, 10 op
- 452529A: Contemporary Architecture III, 10 op
- 453504A: Design of Apartment Blocks, 10 op
- 453510A: Techniques of Plumbing, Heating and Ventilation, 3 op
- 453511A: Electrical Installation, 2 op

Bachelor's Work and Related Studies (vähintään 10 op)

- 455990A: Bachelor's Thesis / Architecture, 8 op
- 030005P: Information Skills, 1 op
- 450522A: Seminar, 1 op
- 450013A: The Maturity Test for Bachelor's Degree, 0 op

Optional Studies, Bachelor of Science (Architecture) (vähintään 10 op)

The optional studies may also include language studies (maximum extent 8 cr). If your basic and subject studies compulsory CAD courses exceed the required 10 cr, you may include the extra CAD courses in the optional studies.

A410171: Optional Studies, Bachelor of Science (Architecture), 10 op

Tutkintorakenteisiin kuulumattomat opintokokonaisuudet ja -jaksot

450553P: 3ds Max basics, 1 op
 450551P: A1 ArchiCAD basics, 2 op
 450552P: A3Autocad basics, 1 op
 450540A: Archicad Advanced, 2 op
 450543A: Archicad Advanced, 1 op
 453521P: Basics of Architectural Construction, lecture course, 3 op
 453522P: Basics of Architectural Construction, studio course, 7 op
 453535P: Basics of Building Physics, 2 op
 456527S: Condition Assessment of Buildings, 5 op
 452504A: Contemporary Architecture IV, 15 op
 455522S: Design in Urban Context, 10 op
 453508A: Energy Efficient Building, lecture course, 5 op
 451511A: Historic Preservation, 10 op
 451505A: History of Architecture III practices, 5 op
 450545A: Illustrator Basics, 1 op
 450547A: Indesign Basics, 1 op
 450541A: Photoshop, Advanced Photomanipulation, 2 op
 450516P: Portfolio, 2 op
 450505A: Practical Training, 5 op
 450503A: Practical Training / Construction Site, 5 op
 450550P: R1 Revit basics, 2 op
 450557A: R2 Revit advanced, 1 op
 456507S: Renovation of Apartment Buildings, 10 op
 450517A: Revit Architecture Advanced, 2 op
 450549A: Rhinoceros and Grasshopper basics, 2 op
 453531P: Structural Technology, basic course, 3 op
 454522S: Urban Space Design, 10 op
 455521S: Urban Space Detailing, 10 op
 455513A: Visual Arts III, 4 op
 455514A: Visual Arts IV / Architectural Photography, 4 op
 450554P: art Artlantis basics, 1 op

Opintojaksojen kuvaukset

Tutkintorakenteisiin kuuluvien opintokohteiden kuvaukset

A410224: Design-led Urban Renewal, 30 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Module of the Option

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

A410225: Sustainable Built Environment 1, 30 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Module of the Option

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

A410249: Design of Public Buildings 1, 15 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Supplementary Module

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

A410250: Design of Public Buildings 2, 15 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Supplementary Module

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

Compulsory courses

453533A: Large scale structures, 5 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Janne Pihlajaniemi

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

455517S: Architectural Lighting, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Henrika Pihlajaniemi

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

455517A: Interior Design, 5 - 10 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Aulikki Herneoja

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay455517A Interior Design (OPEN UNI) 5.0 op

Ei opintojaksokuvauksia.

A410251: Sustainable Built Environment 2, 15 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Supplementary Module

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

Compulsory

453512A: Architectural Construction, Professional Skills, 10 op

Voimassaolo: 01.08.2017 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Janne Pihlajaniemi

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

454540A: Varying Courses of Urban Design, 2 - 10 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

453513S: Energy Efficient Building, studio course, 5 op

Voimassaolo: 01.08.2017 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Janne Pihlajaniemi

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

A410252: Restoration, 15 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Supplementary Module

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

Compulsory

451515S: Restoration, 15 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Özlem Özer-Kemppainen

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

A410275: Strategic Urban Planning, 30 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Advanced Module

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

Compulsory

454505S: Municipal Planning, 15 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Tarja Outila, Leena Soudunsaari

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

454560S: Extension Course / Urban Design, 5 - 10 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Tarja Outila

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

451560S: Research and Theory of Architecture, 2 - 10 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Anna-Maija Ylimaula

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

450506A: Practical Training in Architect's Office, 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Practical training

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Petri Aarnio

Opintokohteen kielet: Finnish

ECTS Credits:

5

Language of instruction:

Finnish / English

Timing:

The best timing for practical training in architect's office is the summers during master level.

Learning outcomes:

After completing the practical training the student is able to describe one possible occupation after his / her graduation. The student can recognize and solve problems of the working environment. The student is able to implement theoretical knowledge in practice. The student recognizes the architect's professional tasks at his / her work place during the practical training.

Contents:

The aim of practical training in architect's office is to initiate the student into architects' work and tasks. It is essential for students to get to know the work field of an architect in order to begin his / her own professional career after graduation most efficiently. Recommended places of work for practical training are private or public design and planning offices lead by qualified architects.

Mode of delivery:

The student finds the placement for practical training by her- / himself.

Learning activities and teaching methods:

The architect's degree consists at least two months practical training in architect's office. The student writes a report and presents a testimonial of the training. In a seminar organized after the training students describe and compare their experiences of training. The practical training is supervised by the laboratory of architectural construction.

Target group:

Master level students

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

The laboratory for architectural construction provides the instructions for practical training.

Assessment methods and criteria:

Practical training in architect's office, writing a training report, participation in the seminar

Grading:

pass / fail

Person responsible:

University teacher Petri Aarnio

Working life cooperation:

The student is employed by an architect's office and carry out the tasks given to him / her as an employee.

450502A: Excursion Abroad, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Mahlamäki Rainer

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

A410276: Advanced Architectural Design, 30 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Advanced Module

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

Compulsory courses

452505S: International Studio, 15 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Mahlamäki Rainer

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

455561S: Advanced Studies in Architectural Design, 2 - 10 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Aulikki Herneoja

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

451560S: Research and Theory of Architecture, 2 - 10 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Anna-Maija Ylimaula

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

450506A: Practical Training in Architect's Office, 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Practical training

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Petri Aarnio

Opintokohteen kielet: Finnish

ECTS Credits:

5

Language of instruction:

Finnish / English

Timing:

The best timing for practical training in architect's office is the summers during master level.

Learning outcomes:

After completing the practical training the student is able to describe one possible occupation after his / her graduation. The student can recognize and solve problems of the working environment. The student is able to implement theoretical knowledge in practice. The student recognizes the architect's professional tasks at his / her work place during the practical training.

Contents:

The aim of practical training in architect's office is to initiate the student into architects' work and tasks. It is essential for students to get to know the work field of an architect in order to begin his / her own professional career after graduation most efficiently. Recommended places of work for practical training are private or public design and planning offices lead by qualified architects.

Mode of delivery:

The student finds the placement for practical training by her- / himself.

Learning activities and teaching methods:

The architect's degree consists at least two months practical training in architect's office. The student writes a report and presents a testimonial of the training. In a seminar organized after the training students describe and compare their experiences of training. The practical training is supervised by the laboratory of architectural construction.

Target group:

Master level students

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

The laboratory for architectural construction provides the instructions for practical training.

Assessment methods and criteria:

Practical training in architect's office, writing a training report, participation in the seminar

Grading:

pass / fail

Person responsible:

University teacher Petri Aarnio

Working life cooperation:

The student is employed by an architect's office and carry out the tasks given to him / her as an employee.

450502A: Excursion Abroad, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Mahlamäki Rainer

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

450099S: Master's Thesis, 30 op

Opiskelumuoto: Advanced Studies

Laji: Diploma thesis

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

450014S: The Maturity Test for Master's Degree, 0 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

450000P: Activities in positions of responsibility and student associations, 1 - 10 op

Voimassaolo: 01.08.2017 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Matti Sanaksenaho

Opintokohteen kielet: Finnish

300002M: Advanced Information Skills, 1 op

Voimassaolo: 01.08.2009 -

Opiskelumuoto: Other Studies

Laji: Course

Vastuuyksikkö: Faculty of Science

Arvostelu: 1 - 5, pass, fail

Opettajat: Ursula Heinikoski

Opintokohteen kielet: Finnish

ECTS Credits:

1 ECTS credit / 27 hours of work

Language of instruction:

Finnish

Timing:

The course is held once in the autumn semester, during period II and in the spring semester, during period IV. Intended for degree students working on their diploma/master's thesis.

Learning outcomes:

Upon completion of the course, the students:

- can search scientific information for their thesis
- know how to evaluate search results and information sources
- understands the principles of scientific publishing
- can use the reference management tool.

Contents:

Scientific information retrieval and the search terms, the most important databases and publication channels of the discipline, tools for evaluating the quality of scientific information and RefWorks reference management tool.

Mode of delivery:

Blended teaching

Learning activities and teaching methods:

Lectures 10 h, self-study 17 h

Target group:

Optional

Recommended or required reading:

Web learning material:

<http://libguides oulu.fi/tieteellinentiedonhankinta>

<http://libguides oulu.fi/julkaisujenarviointi>

Assessment methods and criteria:

Passing the course requires participation in the lectures and successful completion of the course assignments.

Grading:

pass/fail

Person responsible:

Ursula Heinikoski

451540A: History of Architecture and renovation, varying courses, 2 - 10 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Anna-Maija Ylimaula

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

453540A: Varying Courses of Architectural Construction, 2 - 10 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

452550S: Varying Courses of Contemporary Architecture, 2 - 10 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Mahlamäki Rainer

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

452540A: Varying Courses of Contemporary Architecture, 2 - 10 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Matti Sanaksenaho

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

454550S: Varying Courses of Urban Design, 2 - 10 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

454540A: Varying Courses of Urban Design, 2 - 10 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

453551S: Varying courses in Architectural Construction, 2 - 10 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Janne Pihlajaniemi

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

451551S: Varying courses in History of Architecture and Renovation, 2 - 10 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Anna-Maija Ylimaula

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

A410224: Design-led Urban Renewal, 30 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Module of the Option

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

A410249: Design of Public Buildings 1, 15 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Supplementary Module

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

A410250: Design of Public Buildings 2, 15 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Supplementary Module

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

Compulsory courses

453533A: Large scale structures, 5 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies
Laji: Course
Vastuuyksikkö: Oulu School of Architecture
Arvostelu: 1 - 5, pass, fail
Opettajat: Janne Pihlajaniemi
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

455517S: Architectural Lighting, 5 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Advanced Studies
Laji: Course
Vastuuyksikkö: Oulu School of Architecture
Arvostelu: 1 - 5, pass, fail
Opettajat: Henrika Pihlajaniemi
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

455517A: Interior Design, 5 - 10 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Intermediate Studies
Laji: Course
Vastuuyksikkö: Oulu School of Architecture
Arvostelu: 1 - 5, pass, fail
Opettajat: Aulikki Herneoja
Opintokohteen kielet: Finnish
Leikkaavuudet:

ay455517A Interior Design (OPEN UNI) 5.0 op

Ei opintojaksokuvauksia.

A410276: Advanced Architectural Design, 30 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Advanced Module
Laji: Study module
Vastuuyksikkö: Oulu School of Architecture
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

Compulsory courses

452505S: International Studio, 15 op

Opiskelumuoto: Advanced Studies
Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Mahlamäki Rainer

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

455561S: Advanced Studies in Architectural Design, 2 - 10 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Aulikki Herneoja

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

451560S: Research and Theory of Architecture, 2 - 10 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Anna-Maija Ylimaula

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

450506A: Practical Training in Architect's Office, 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Practical training

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Petri Aarnio

Opintokohteen kielet: Finnish

ECTS Credits:

5

Language of instruction:

Finnish / English

Timing:

The best timing for practical training in architect's office is the summers during master level.

Learning outcomes:

After completing the practical training the student is able to describe one possible occupation after his / her graduation. The student can recognize and solve problems of the working environment. The student is able to implement theoretical knowledge in practice. The student recognizes the architect's professional tasks at his / her work place during the practical training.

Contents:

The aim of practical training in architect's office is to initiate the student into architects' work and tasks. It is essential for students to get to know the work field of an architect in order to begin his / her own professional career after graduation most efficiently. Recommended places of work for practical training are private or public design and planning offices lead by qualified architects.

Mode of delivery:

The student finds the placement for practical training by her- / himself.

Learning activities and teaching methods:

The architect's degree consists at least two months practical training in architect's office. The student writes a report and presents a testimonial of the training. In a seminar organized after the training students describe and compare their experiences of training. The practical training is supervised by the laboratory of architectural construction.

Target group:

Master level students

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

The laboratory for architectural construction provides the instructions for practical training.

Assessment methods and criteria:

Practical training in architect's office, writing a training report, participation in the seminar

Grading:

pass / fail

Person responsible:

University teacher Petri Aarnio

Working life cooperation:

The student is employed by an architect's office and carry out the tasks given to him / her as an employee.

450502A: Excursion Abroad, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Mahlamäki Rainer

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

450099S: Master's Thesis, 30 op

Opiskelumuoto: Advanced Studies

Laji: Diploma thesis

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

450014S: The Maturity Test for Master's Degree, 0 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

900020Y: Finnish for Advanced Students, 4 op

Voimassaolo: 01.08.1995 -

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Languages and Communication

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay900020Y Finnish for Advanced Students (OPEN UNI) 4.0 op

Ei opintojaksokuvauksia.

900019Y: Finnish for Foreigners (beginners), 2 op

Voimassaolo: 01.08.1995 - 31.07.2005

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Languages and Communication

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

900021Y: Finnish for Foreigners, Beginners 3, 6 op

Voimassaolo: 01.08.1995 - 31.07.2005

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Languages and Communication

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

900022Y: Finnish for Foreigners, Intermediate 1, 2 op

Voimassaolo: 01.08.1995 - 31.07.2007

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Languages and Communication

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

900016Y: Intermediate Finnish Course 2, 5 op

Voimassaolo: 01.08.1995 -

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Languages and Communication

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Proficiency level:

A2.2

Status:

The course is intended for the international students in every faculty of University of Oulu.

Required proficiency level:

A2.1, Completion of the Intermediate Finnish course 1 (900015Y) or the equivalent language skills.

ECTS Credits:

5 ECTS credits

Language of instruction:

Finnish

Timing:

-

Learning outcomes:

By the end of the course the student can communicate in various informal situations in Finnish. The student understands the main points of messages and talk around her/him. S/he can produce simple connected text on topics which are familiar or of personal interest and describe experiences and also report heard content to others.

Contents:

The course is an upper intermediate course. During the course students learn the necessary written and oral skills to be able to cope in informal situations arising during everyday life, work and study. In the course, students practise understanding more Finnish talk and newspaper articles, and finding information and talking about it to other people. In the classes the main stress is on oral exercises and group work.

The topics and communicative situations covered in the course are: transactions e.g. in clothes shops, at the doctor's and on the phone, Finnish small talk, reacting in different situations, planning a trip and booking e.g. a flight, information and facts about Finland and its history, telling about one's home country and home town, features of colloquial/spoken language.

The structures studied are: the perfect and pluperfect, revision of all the verb tenses, comparison of adjectives, conditional, more about the plural declension of nouns (particularly the plural partitive case), more about object and predicative cases, the passive imperfect.

Mode of delivery:

Contact teaching and guided self study

Learning activities and teaching methods:

Lessons once a week (52 h, including the tests) and guided self study (83 h)

Target group:

International degree and post-graduate degree students, exchange students and the staff members of the University

Prerequisites and co-requisites:

Completion of the Intermediate Finnish Course 1

Recommended optional programme components:

-

Recommended or required reading:

Gehring, S. & Heinzmann, S.: **Suomen mestari 2 (chapters 6 - 9)**

Assessment methods and criteria:

Regular and active participation in the weekly lessons (twice a week), homework assignments and the tests will be taken into consideration in the assessment.

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

Grading:

Grading scale is 1-5.

Person responsible:

Anne Koskela

Working life cooperation:

-

Other information:

Sign-up in WebOodi. The lessons will be held **once a week** during a 13-week period.

451515S: Restoration, 15 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Özlem Özer-Kemppainen

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

900023Y: Structures of the Finnish Language, 4 op

Voimassaolo: 01.08.1995 -

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Languages and Communication

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

900017Y: Survival Finnish, 2 op

Voimassaolo: 01.08.1995 -

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Languages and Communication

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay900017Y Survival Finnish Course (OPEN UNI) 2.0 op

Proficiency level:

A1.1

Status:

The course is intended for the international students in every faculty of Oulu University.

Required proficiency level:

No previous Finnish studies.

ECTS Credits:

2 ECTS credits

Language of instruction:

Finnish and English

Timing:

-

Learning outcomes:

By the end of the course the student can understand and use some very common everyday expressions and phrases, and s/he can locate informational content in simple texts and messages. The student also knows the basic characteristics of Finnish language and Finnish communication styles.

Contents:

This is an introductory course which aims to help students to cope with the most common everyday situations in Finnish. During the course, students learn some useful everyday phrases, some general features of the vocabulary and grammar, and the main principles of pronunciation.

The topics and communicative situations covered in the course are: general information about the Finnish language, some politeness phrases (how to greet people, thank and apologize), introducing oneself, giving and asking for basic personal information, numbers, some time expressions (how to tell and ask the time, days of the week, time of day), food, drink and asking about prices.

The structures studied are: personal pronouns and their possessive forms, forming affirmative, negative and interrogative sentences, the conjugation of some verbs, the basics of the partitive singular and some local cases for answering the 'where'-question.

Mode of delivery:

Multi-modal teaching (Contact teaching, on-line teaching and independent work)

Learning activities and teaching methods:

Lessons 1–2 times a week (14 h, including the final exam) and guided self study (40 h)

Target group:

International degree and post-graduate degree students and exchange students of the University

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Will be provided during the course.

Assessment methods and criteria:

Regular and active participation in the weekly lessons (twice a week), homework assignments and written exam at the end of the course will be observed in assessment.

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

Grading:

Grading scale is 0-5.

Person responsible:

Anne Koskela

Working life cooperation:

-

Other information:

Sign-up in WebOodi.

900018Y: Survival finnish (extended), 4 op

Voimassaolo: 01.08.1995 - 31.07.2007

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Languages and Communication

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

452550S: Varying Courses of Contemporary Architecture, 2 - 10 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Mahlamäki Rainer

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

454550S: Varying Courses of Urban Design, 2 - 10 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

453551S: Varying courses in Architectural Construction, 2 - 10 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Janne Pihlajaniemi

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

451551S: Varying courses in History of Architecture and Renovation, 2 - 10 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Anna-Maija Ylimaula

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

A410120: Basic and Intermediate Studies, Architecture, 120 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic and Intermediate Studies

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

Compulsory courses

450511P: Orientation, 1 op**Voimassaolo:** 01.08.2015 -**Opiskelumuoto:** Basic Studies**Laji:** Course**Vastuuyksikkö:** Oulu School of Architecture**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**ECTS Credits:**

1 ECTS

Language of instruction:

Finnish

Timing:1st half of the autumn semester, 1st week of the academic year**Learning outcomes:**

Having attended the orientation the student is able to apply to the key persons of the study program for essential information concerning the studies in architecture, and to recognize the study environment, student tutors, tutor teachers and other staff of the school. Additionally, the student is able to describe working methods and study culture of the architecture program.

Contents:

The aim of the orientation is to initiate the student into the study program, and to familiarize with the facilities (the library included), the staff responsible, as well as with working methods of studies in architecture. The orientation program includes attendance in workshops.

Mode of delivery:

Face-to-face teaching and group work during the workshop.

Learning activities and teaching methods:

20 hours of guided learning

Target group:

1st year bachelor students

Prerequisites and co-requisites:

-

Recommended optional programme components:

The course is an independent study unit and does not require any parallel studies.

Recommended or required reading:

-

Assessment methods and criteria:

Participation in the presentation, the guidance and the workshops.

Grading:

Pass

Person responsible:

Matti Sanaksenaho Dean (education), tutor teachers, student counselor, student tutors

Working life cooperation:

The orientation includes a lecture on the architect's professional profile and the 'Future Factory' workshop, during which students will learn about various working life skills for the future, working methods for problem solving and about team work.

Other information:

-

450521P: Computer Aided Design I, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Asko Leinonen

Opintokohteen kielet: Finnish

ECTS Credits:

5

Language of instruction:

Finnish

Timing:

autumn and spring semester

Learning outcomes:

The students are able to use CAD applications to design standard 2D drawings and to produce printable sheets, can model 3D objects with the surface modeling techniques, can modify the settings for perspective views, know the main differences between a traditional CAD and a BIM (building information modeling), can make page layouts and are able to improve digital photos using image editing software.

Contents:

During the autumn term the students study computer aided 2D drafting in Autocad and 3D modeling in SketchUp Pro. In the autumn term the students complete a small modeling exercise. During the spring term the students study photo editing and page layout using Adobe Photoshop and Indesign software. In the spring term the students also complete independently the building design exercise using the software studied.

Mode of delivery:

Lectures and course work.

Learning activities and teaching methods:

Contact teaching 81 h, independent exercises 54 h

Target group:

1st year bachelor students

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

The course literature will be announced separately.

Assessment methods and criteria:

The evaluation is based mainly on the exercises.

Grading:

1-5

Person responsible:

Asko Leinonen

Working life cooperation:

The course includes learning the basics of computer programs used in architect's work. Students will get basic skills to work in assisting duties such as clean drawing and making draft models.

Other information:

The course is intended for registered students of the Oulu School of Architecture only.

Voimassaolo: 01.08.2018 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2,5

Language of instruction:

Finnish

Timing:

autumn and spring semester

Learning outcomes:

Students are able to produce presentation drawings based on the information model using basic tools and know the essential to produce building permit drawings. Students understand the principle of data modeling based on the parameters. The students are able to create quantitative calculations of building parts.

Contents:

Project management, detailing tools, section, facade and perspective views, schedule tables.

Mode of delivery:

Lectures and course work.

Learning activities and teaching methods:

Contact teaching 40 h, independent exercises 27 h.

Target group:

2nd year bachelor students

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Software help files and handouts.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the Oulu School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

NN

Working life cooperation:

Students will learn to use the basics of Revit software and apply those skills in hands-on work.

Other information:

Introduction to conventional Building Information Modelling in Revit Architecture Environment. The course is intended for registered students of the Oulu School of Architecture only.

450556P: AI ArchiCAD basics, 2,5 op

Voimassaolo: 01.08.2018 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2,5

Language of instruction:

Finnish

Timing:

autumn and spring semester

Learning outcomes:

Students are able to produce basic presentation drawings based on the information model using basic tools and know the essentials to producing building permit drawings. Students understand the principle of data modeling based on the parameters. The students are able to create quantitative calculations of building parts.

Contents:

Project management, detailing tools, section, facade and perspective views.

Mode of delivery:

Lectures and course work.

Learning activities and teaching methods:

Contact teaching 40 h, independent exercises 27 h.

Target group:

2nd year bachelor students

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Software help files and handouts.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the Oulu School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

NN

Working life cooperation:

Students will learn to use the basics of Archicad software and apply those skills in hands-on work.

Other information:

Introduction to conventional Building Information Modelling in Archicad. The course is intended for registered students of the Oulu School of Architecture only.

451535P: History of Architecture I, lecture course, 4 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Petri Vuojala

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay451535P History of Architecture I, lecture course (OPEN UNI) 4.0 op

ECTS Credits:

4 ECTS

Language of instruction:

Finnish

Timing:

Autumn term I and 2

Learning outcomes:

After completing the course the student can evaluate the interaction between style periods of European architectural history, technical development and social changes. The student can classify the different eras and recognize their most significant buildings and architects. After the course the student can interpret the classical language of architecture the classical grammar of architecture, as well as recognize the historical layers of built environment.

Contents:

Lectures discuss the general history of architecture and discipline of styles from prehistory until the end of 18th century and introduce old building methods like brickwork bonds and traditional vault constructions.

Mode of delivery:

Lectures, additionally independent studies

Learning activities and teaching methods:

Lessons 56 hrs

Target group:

1st year Bachelor level students

Prerequisites and co-requisites:

-

Recommended optional programme components:

Course is combined to exercises (451536P)

Recommended or required reading:

Handouts, digital slides. A literature list will be delivered during the course.

Assessment methods and criteria:

Assessment is based on attendance, learning diary or written examination.

Grading:

1-5

Person responsible:

Professor Anna-Maija Ylimaula, University lecturer N.N.

Working life cooperation:

-

Other information:

-

451536P: History of Architecture I, studio course, 6 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Özlem Özer-Kemppainen

Opintokohteen kielet: Finnish

ECTS Credits:

6

Language of instruction:

Finnish (literature partly in English)

Timing:

Autumn term periods 1 and 2

Learning outcomes:

Having completed the course the student is able to observe the built environment and is able to identify and to describe different historical styles and layers of architecture. The student is also able to present these observations by using different drawing technics and writing and the student knows how to observe the built environment.

Contents:

Exercises consist of three separate tasks. The exercises are designed to train the students to observe the built environment and to use the vocabulary of architectural styles and history of architecture. The aim is to learn the terminology of classical architecture and to be able to express the classical language by drawing and writing. The aim is also to enhance the student's own ability to sense and observe the special qualities of the built environment.

Mode of delivery:

Contact teaching and independent studying

Learning activities and teaching methods:

40h contact teaching in design studio.

Target group:

1st year Bachelor level students

Prerequisites and co-requisites:

-

Recommended optional programme components:

The course is related to the History of Architecture 1, lecture course (451535P)

Recommended or required reading:

A list of literature will be handed out during the course

Assessment methods and criteria:

Design tasks and supplementary lectures and the evaluation sessions

Grading:

1-5

Person responsible:

Professor Anna-Maija Ylimaula, University teacher Özlem Özer-Kemppainen.

Working life cooperation:

-

Other information:

-

452525P: Contemporary Architecture I, elements, 7 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Matti Sanaksenaho

Opintokohteen kielet: Finnish

ECTS Credits:

7

Language of instruction:

Finnish

Timing:

Autumn term 1-2

Learning outcomes:

After completing the course the student can name internationally essential phenomena and important names within modern architecture. He/she can explain the main features of the development of post-war Finnish architecture. The student can design a small building, implementing the design basics included in the course, i.e. basics of giving form to space, architectural solutions and dimensioning. The student can carry out the design work utilizing background information (basics of housing design, dimensioning) and fundamentals of dimensioning of dwellings. Furthermore, the student is able to illustrate his/her design with the help of computer technology.

Contents:

Lectures on basic architectural concepts, architectural phenomena of current interest, nature of artistic work and knowledge of housing design. Composition and design exercises with emphasis on dimensioning and basics of housing design. Visitor lectures are part of course.

Mode of delivery:

Lectures, exercises and a written examination. The type of the examination will be specified at the beginning of the course. Contact teaching and independent studying.

Learning activities and teaching methods:

lectures 18h + contact teaching 77 hours.

Target group:

1.st year students.

Prerequisites and co-requisites:

-

Recommended optional programme components:

450525P Techniques of Visual Presentation in Architecture and 453501P Architectural Construction, Basic Course

Recommended or required reading:

William J.R. Curtis: Modern architecture since 1900,
Richard Weston: Materials, form and architecture,
Jari& Sirkka-Liisa Jetsonen: Finnish summer houses.

Assessment methods and criteria:

Based on examination and exercises.

Grading:

1-5

Person responsible:

Prof. Matti Sanaksenaho

Working life cooperation:

The course includes a series of guest lectures, within which professionals tell about their experiences of practising the architect's profession.

Other information:

The objective is to provide the student with an understanding of architecture and guide to creative design work.

452526P: Contemporary Architecture I, basic course, 8 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Matti Sanaksenaho

Opintokohteen kielet: Finnish

ECTS Credits:

8

Language of instruction:

Finnish

Timing:

Spring term 1-2

Learning outcomes:

After completing the course the student can name internationally essential phenomena and important names within modern architecture. He/she can explain the main features of the development of post-war Finnish architecture. The student can design a small building, implementing the design basics included in the course, i.e. basics of giving form to space, architectural solutions and dimensioning. The student can carry out the design work utilizing background information (basics of housing design, dimensioning) and fundamentals of dimensioning of dwellings. Furthermore, the student is able to illustrate his/her design with the help of computer technology.

Contents:

Lectures on basic architectural concepts, architectural phenomena of current interest, nature of artistic work and knowledge of housing design. Composition and design exercises with emphasis on dimensioning and basics of housing design. Visitor lectures are part of course.

Mode of delivery:

Lectures, exercises and a written examination. The type of the examination will be specified at the beginning of the course. Contact teaching and independent studying.

Learning activities and teaching methods:

lectures 18h+ contact teaching 117 hours.

Target group:

1.st year students.

Prerequisites and co-requisites:

-

Recommended optional programme components:

450521P CAD 1

Recommended or required reading:

William J.R. Curtis: Modern architecture since 1900.

Richard Weston: Materials, form and architecture

Jari & Sirkkaliisa Jetsonen: Finnish summer houses

Assessment methods and criteria:

Based on examination and exercises.

Grading:

1-5

Person responsible:

Prof. Matti Sanaksenaho

Working life cooperation:

The course includes a series of guest lectures, within which professionals tell about their experiences of practising the architect's profession.

Other information:

The objective is to provide the student with an understanding of architecture and guide to creative design work.

453523P: Basics of Architectural Construction, lecture course, 5 op

Voimassaolo: 01.08.2018 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

3

Language of instruction:

Finnish

Timing:

spring term

Learning outcomes:

After completing the course the student can explain the basic concepts of architectural construction and present the functional principles of the building parts and structures of a wood constructed one-family house.

Contents:

Lectures on the education and the position of an architect in a building project, building concepts, basics of structural technology and building physics. Students are given general data on architectural construction and on the functional requirements set for building parts.

Mode of delivery:

Face-to-face teaching, independent working.

Learning activities and teaching methods:

34 hours of lectures, 101 hours of independent working.

Target group:

1st year bachelor students

Prerequisites and co-requisites:

-

Recommended or required reading:

List of readings will be handed out during the course.

Assessment methods and criteria:

The evaluation is based on the exam.

Grading:

1-5

Person responsible:

Docent Jari Heikkilä

Working life cooperation:

The course includes a lecture concerning the professional practice of architects, which is given to the students in the beginning of the studies.

Other information:

-

453524P: Basics of Architectural Construction, studio course 1, 3 op

Voimassaolo: 01.08.2018 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Janne Pihlajaniemi

Opintokohteen kielet: Finnish

ECTS Credits:

3

Language of instruction:

Finnish

Timing:

spring terms

Learning outcomes:

After completing the course the student knows the basics of designing a wood-framed single-family house.

Contents:

The course includes the design of a wood frame house. The aim of the course is to familiarize the student in detail with constructions and design of wood-framed one-family houses.

Mode of delivery:

Face-to-face teaching, Independent working.

Learning activities and teaching methods:

2 hours lectures, 20 hours face-to-face teaching in the studio, 59 hours of independent working.

Target group:

1st year bachelor level students

Prerequisites and co-requisites:

Contemporary Architecture I –course

Recommended optional programme components:

Basics of Architectural Construction, lecture course is recommended to take at the same time.

Recommended or required reading:

List of readings will be handed out during the course.

Assessment methods and criteria:

The evaluation is based on the outcome of the exercise work.

Grading:

1-5

Person responsible:

professor Janne Pihlajaniemi, university teacher Petri Aarnio (coordinator)

Working life cooperation:

The guidance of the exercise is partly based on tutelage given by architects working in the design profession.

Other information:

-

453525P: Basics of Architectural Construction, studio course 2, 4 op

Voimassaolo: 01.08.2018 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Janne Pihlajaniemi

Opintokohteen kielet: Finnish

ECTS Credits:

4

Language of instruction:

Finnish

Timing:

autumn terms

Learning outcomes:

After completing the course the student knows the basics of designing a wood-framed single-family house.

Contents:

The course includes the design of a wood frame house. The aim of the course is to familiarize the student in detail with constructions and design of wood-framed one-family houses.

Mode of delivery:

Face-to-face teaching, Independent working.

Learning activities and teaching methods:

8 hours lectures, 64 hours face-to-face teaching in the studio, 36 hours of independent working.

Target group:

2nd year bachelor level students

Prerequisites and co-requisites:

Contemporary Architecture I –course, Basics of Architectural Construction, lecture course, Basics of Architectural Construction, studio course 1

Recommended optional programme components:

Wooden structures -course is recommended to take at the same time.

Recommended or required reading:

List of readings will be handed out during the course.

Assessment methods and criteria:

Studio exercises and excursion. The evaluation is based on the outcome of the exercise work.

Grading:

1-5

Person responsible:

professor Janne Pihlajaniemi, university teacher Petri Aarnio (coordinator)

Working life cooperation:

A visit to the construction site of the wooden frame building. The guidance of the exercise is partly based on tutelage given by architects working in the design profession.

Other information:

-

453532P: Wooden Structures, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay453532P Wooden Structures (OPEN UNI) 2.0 op

ECTS Credits:

2 ECTS

Language of instruction:

Finnish

Timing:

Autumn term 1

Learning outcomes:

Upon completion of the course the student identifies the qualities of wood as structural material and is able to use wooden products to design the frame of a small long term building.

Contents:

Lectures comprise the qualities of wood including its strength properties, wooden products and structural detailing. The design studio comprises structural design project of a family house.

Mode of delivery:

Contact teaching and independent studying.

Learning activities and teaching methods:

14 h lectures +6 h contact teaching, 34 h independent working

Target group:

2nd year bachelor level students.

Prerequisites and co-requisites:

Basics of Building Physics and Structural Technology, Basic Course

Recommended optional programme components:

The course is recommended to take together with the Basics of Architectural Construction, studio course.

Recommended or required reading:

Lecture material and the related literature

Assessment methods and criteria:

Lectures, design project and learning diary. The final grading will be calculated as a mean of the learning diary and project grades

Grading:

1-5

Person responsible:

professor Janne Pihlajaniemi

Working life cooperation:

A visit to the construction site of the wooden frame building.

Other information:

-

466102A: Introduction to structural design, 3 - 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Mechanical Engineering

Arvostelu: 1 - 5, pass, fail

Opettajat: Liedes, Hannu Tapani

Opintokohteen kielet: Finnish

Leikkaavuudet:

485102A Introduction to structural design 5.0 op

460117A-01 Introduction to Structural Design, examination 0.0 op

460117A-02 Introduction to Structural Design, exercise work 0.0 op

460117A Introduction to Structural Design 6.0 op

ECTS Credits:

5 ECTS credits / 132 hours of work

Language of instruction:

Finnish

Timing:

Autumn semester, periods 1-2

Learning outcomes:

After completing the course the student is able to name technical regulations and instructions, which guide construction. After completing the course students can explicate principle of verifications and plastic theory on structure design and also different loads on structure. Student estimate design loads by calculation and design load effect in structures. Student can describe different structure and bracing systems.

Contents:

Regulations and supervising. The principle of design verification. The loads and effect. The principle of using of eurocode. The principle of plastic theory on on structure design. Structure systems. The joints of structures.

Mode of delivery:

Lecture room teaching.

Learning activities and teaching methods:

Lectures and exercises

Target group:

Students studying structural engineering

Prerequisites and co-requisites:

461016A Statics and 460101A Strength of Materials I

Recommended or required reading:

Lecture notes (mainly in Finnish), Finnish law and legislation, National building code of Finland, Eurocode standards

Assessment methods and criteria:

Passed practical works and exam

Grading:

Numerical grading scale 1-5. Grade 0 stands for a fail.

Person responsible:

University teacher Hannu Liedes

454521P: History of Urban Design, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Tarja Outila

Opintokohteen kielet: Finnish

ECTS Credits:

5

Language of instruction:

Finnish

Timing:

Autumn term 1-2.

Learning outcomes:

Having completed the study unit the student able to describe different historical phases of urban design. The student is also able to identify and describe the elements of urban form as well as implement them in an urban design project. The student can also independently obtain information needed in a small urban design project. The student is able to recognize the main elements of urban space and style.

Contents:

Lectures comprise main elements of urban form and historical phases of urban design in the western world and in Finland especially. The design studio comprises of a small urban design project.

Mode of delivery:

Contact teaching and independent studying.

Learning activities and teaching methods:

24 h lectures + 52 h contact teaching in design studio + 59 h independent studying.

Target group:

1st year Bachelor level students.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Study compendium. Course literature will be announced separately.

Assessment methods and criteria:

Design project and exam. The evaluation is based on the outcome of the design project (2/3) and exam (1/3).

Grading:

1-5

Person responsible:

University Lecturer Kari Nykänen.

Working life cooperation:

-

Other information:

This study unit is taught entirely in Finnish and intended for registered bachelor level students of the Oulu School of Architecture only.

455501P: Basics of Design, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Aulikki Herneoja

Opintokohteen kielet: Finnish

ECTS Credits:

5

Language of instruction:

Finnish

Timing:

Spring term 1 & 2.

Learning outcomes:

After completing the course the student can carry out a design exercise, applying the basics of design and detailing closely related to architecture. The exercise is based on application of basics of design and

detailing to practice. The student is able to apply the principles of sustainability in his / her design solutions and material selection.

Contents:

The objective of the course is to guide the student to understanding of the basics of design and detailing closely connected to architecture. Lectures deal with basics of design related to architecture, taking into account a perspective of sustainability. The focus of the exercise is on basics of detailing and jointing, the examination of relationship between material, colour and light, introduction of fixed furnishing and designing of

Mode of delivery:

Contact teaching and independent studying.

Learning activities and teaching methods:

12h lectures and/or contact teaching and 48 h personal or/and group tutoring

Target group:

2nd year Bachelor level students.

Prerequisites and co-requisites:

-

Recommended optional programme components:

The exercise is integrated with the 2nd year spring semester exercise of Contemporary Architecture II.

Recommended or required reading:

List of readings is given during the course.

Assessment methods and criteria:

The student attends the lectures and completes a design exercise according to instructions. The evaluation is made based on outcome of the exercise work. The course does not include an exam.

Grading:

1-5, pass/fail

Person responsible:

University Lecturer Aulikki Herneoja

Working life cooperation:

The project work trains the student's design skills needed in the architect's profession.

Other information:

-

455511P: Visual Arts I, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay455511P Visual Arts I (OPEN UNI) 5.0 op

ECTS Credits:

5

Language of instruction:

Finnish

Timing:

Autumn term 1-2

Learning outcomes:

To deal with different aspects of visual expression, to expand general knowledge relative to the various fields of art and to develop independent creative expression.

After completing the course the student is able to comprehend various sides of visual expression and can implement these skills in exercise work.

Contents:

Object and spatial drawing, classical model drawing, designing and modelling.

Mode of delivery:

Contact teaching and independent studying.

Learning activities and teaching methods:

lectures and/ or contact teaching 6 hours and contact teaching and/ or group guidance 92hours.

Target group:

1.nd year students.

Prerequisites and co-requisites:

-

Recommended or required reading:

Supplemental reading list will be supplied during the course.

Assessment methods and criteria:

Based on exercises.

Grading:

1-5

Person responsible:

Prof. Matti Sanaksenaho.

Working life cooperation:

Students are initiated in the artist's work through guidance of a professional artist.

455512P: Visual Arts II, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay455512P Visual Arts II (OPEN UNI) 3.0 op

ECTS Credits:

3

Language of instruction:

Finnish

Timing:

Spring term 1-2

Learning outcomes:

To deal with different aspects of visual expression, to expand general knowledge relative to the various fields of art and to develop independent creative expression.

After completing the course the student is able to comprehend various sides of visual expression and can implement these skills in exercise work.

Contents:

Classical model drawing and various applications of composition and colour theory. The relationship between architecture and colour as well as art and space is studied during the course.

Mode of delivery:

Contact teaching and independent studying.

Learning activities and teaching methods:

lectures and/ or contact teaching hours and contact teaching and/ or group guidance 92 hours

Target group:

2.nd year students

Prerequisites and co-requisites:

-

Recommended or required reading:

Supplemental reading list will be supplied during the course.

Assessment methods and criteria:

Based on exercises.

Grading:

1-5

Person responsible:

Prof. Matti Sanaksenaho.

Working life cooperation:

Students are initiated in the artist's work through guidance of a professional artist.

451537A: History of Architecture II, lecture course, 3 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Petri Vuojala

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay451537A History of Architecture II, lecture course (OPEN UNI) 3.0 op

ECTS Credits:

3

Language of instruction:

Finnish (literature partly in English)

Timing:

Spring term I and 2

Learning outcomes:

During the course the student learns to recognize the historical roots of the contemporary architecture and recount the development up to today. Having completed the course, the student recognizes the most essential phenomena and styles of 19th and 20th century architecture and can reflect own personal views on contemporary architecture.

Contents:

Course discusses the general history of architecture of 19th and 20th centuries.

Mode of delivery:

Lectures, additionally independent studies.

Learning activities and teaching methods:

Lectures 48 hrs

Target group:

1st year Bachelor's level students

Prerequisites and co-requisites:

History of architecture I, lecture course (451535P)

Recommended optional programme components:

Course is combined to practices (451538A)

Recommended or required reading:

Handouts, digital slides. A literature list will be handed out during the course

Assessment methods and criteria:

Assessment is based on attendance, learning diary or written examination

Grading:

1-5

Person responsible:

Professor Anna-Maija Ylimaula, University lecturer N.N.

Working life cooperation:

-

Other information:

-

451538A: History of Architecture II, studio course, 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Özlem Özer-Kemppainen

Opintokohteen kielet: Finnish

ECTS Credits:

5

Language of instruction:

Finnish

Timing:

Autumn term I and 2

Learning outcomes:

The aim of the course is to learn how to measure and do the measurement drawings as well as the inventory of historical buildings and building groups. Having completed the course the student is able to do measurement drawings of the buildings, and have knowledge about the customary methods of documentation and inventory. Through the subject area of the course the student learns about the traditional building methods.

Contents:

During the course measurement drawings of a historical building or building groups are done. Both traditional and new methods of documentation, inventory and measurement are studied. The course includes a fieldwork where the traditional building methods and techniques are also studied.

Mode of delivery:

Contact teaching and independent studying.

Learning activities and teaching methods:

48 h contact teaching in design studio. 2 field trips.

Target group:

2nd year Bachelor level students.

Prerequisites and co-requisites:

-

Recommended optional programme components:

The course is related to the History of Architecture 2, lecture course (451537A)

Recommended or required reading:

A list of literature will be handed out during the course.

Assessment methods and criteria:

participation in the lectures, field work and evaluation sessions. Inventory project. The evaluation is based on the quality of the inventory project.

Grading:

1-5

Person responsible:

Professor Anna-Maija Ylimaula, University teacher Özlem Özer-Kemppainen.

Working life cooperation:

The project consists of historical building groups and the inventories made during the course are used during the process of regional planning.

Other information:

-

452523A: Contemporary Architecture II, elements, 7 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Matti Sanaksenaho

Opintokohteen kielet: Finnish

ECTS Credits:

7

Language of instruction:

Finnish

Timing:

Autumn term 1-2

Learning outcomes:

After completing the course the student can name internationally essential phenomena and important names within modern architecture. He/she can explain the main features of the development of post-war Finnish architecture. The student can design a small (housing and public) building, implementing the design basics included in the course, i.e. basics of giving form to space, architectural solutions, dimensioning and understand the meaning of light in housedesign. The student can carry out the design work utilizing background information, basics of housing design e.g dimensioning, site, space, materials, natural light as a part of expression of architecture. Furthermore, the student is able to illustrate his/her design with the help of computer technology.

Contents:

Lectures on basic architectural concepts, architectural phenomena of current interest, the nature of artistic work and knowledge of housing design. Composition and design exercises with emphasis on dimensioning and basics of housing design. Visitor lectures are part of course.

Mode of delivery:

Lectures, exercises and a written examination. The type of the examination will be specified at the beginning of the course. Contact teaching and independent studying.

Learning activities and teaching methods:

lectures 18h+ contact teaching 92 hours.

Target group:

2.nd year students.

Prerequisites and co-requisites:

452521P and 452522P Contemporary Architecture I.

Recommended optional programme components:

CAD I

Recommended or required reading:

William J.R. Curtis: Modern architecture since 1900.

Philip Jodidio: Architecture Now

Henry Plummer: The architecture of natural light

Assessment methods and criteria:

Based on examination and exercises.

Grading:

1-5

Person responsible:

Prof. Matti Sanaksenaho.

Working life cooperation:

The course includes a series of guest lectures, within which professionals tell about their experiences of practising the architect's profession.

Other information:

The objective is to provide the student with an understanding of architecture and guide to creative design work.

452528A: Contemporary Architecture II, basics, 8 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Matti Sanaksenaho

Opintokohteen kielet: Finnish

ECTS Credits:

8

Language of instruction:

Finnish

Timing:

Spring term 1-2

Learning outcomes:

After completing the course the student can name internationally essential phenomena and important names within modern architecture. He/she can explain the main features of the development of post-war Finnish architecture. The student can design a small (housing and public) building, implementing the design basics included in the course, i.e. basics of giving form to space, architectural solutions, dimensioning and understand the meaning of light in housedesign. The student can carry out the design work utilizing background information, basics of housing design e.g dimensioning, site, space, materials, natural light as a part of expression of architecture. Furthermore, the student is able to illustrate his/her design with the help of computer technology.

Contents:

Lectures on basic architectural concepts, architectural phenomena of current interest, the nature of artistic work and knowledge of housing design. Composition and design exercises with emphasis on dimensioning and basics of housing design. Visitor lectures are part of course.

Mode of delivery:

Lectures, exercises and a written examination. The type of the examination will be specified at the beginning of the course. Contact teaching and independent studying.

Learning activities and teaching methods:

lectures 18h+ contact teaching 132 hours.

Target group:

2.nd year students.

Prerequisites and co-requisites:

452521P and 452522P Contemporary Architecture I, 452523A Contemporary Architecture II elements.

Recommended optional programme components:

CAD 1

Recommended or required reading:

William J.R. Curtis: Modern architecture since 1900.

Philip Jodidio: Architecture Now

Henry Plummer: The architecture of natural light

Assessment methods and criteria:

Based on examination and exercises.

Grading:

1-5

Person responsible:

Prof. Matti Sanaksenaho

Working life cooperation:

The course includes a series of guest lectures, within which professionals tell about their experiences of practising the architect's profession.

Other information:

The objective is to provide the student with an understanding of architecture and guide to creative design work.

456502A: Renovation of Apartment Buildings, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Anu-Sisko Soikkeli

Opintokohteen kielet: Finnish

ECTS Credits:

5

Language of instruction:

Finnish

Timing:

Spring semester 1-2

Learning outcomes:

To introduce the student to the principles and characteristics of building renovation and the maintenance of wood frame buildings as well as a renovation planning process from the viewpoint of an architect. A good command of correct renovation principles and knowledge of damages and repair methods of wooden buildings.

After completing the course the student can explain the most common damage mechanisms in post-war wooden houses. The student can estimate how different methods of renovation will affect the functions and architecture of a wooden one-family house. The student can make technically safe choices between different ways of renovation, improving energy efficiency and functionality of the building. The student can explain the phases of a renovation design process. He / she can analyze the influences of the output level and the input level of the renovation on the design process.

Contents:

Completing a renovation plan for a wooden prefabricated dwelling house. Lectures deal especially with special features and post-war one-family houses and technical issues of renovating a wood-frame house. Visits are designed to support the process of composing the plan. Exercise of making master plans of the renovation of a prefabricated wooden house is carried out as pair work.

Mode of delivery:

Contact teaching and independent studying. A written exam is part of the course.

Learning activities and teaching methods:

26 h lectures + 8 h contact teaching.

Target group:

2nd year Bachelor level students.

Prerequisites and co-requisites:

Basics of Architectural Construction -course.

Recommended optional programme components:

-

Recommended or required reading:

Course literature will be announced separately.

Assessment methods and criteria:

Design project and exam.

Grading:

1-5

Person responsible:

Senior lecturer Anu Soikkeli

Working life cooperation:

The student knows how to use the technical symbols of building renovation and prepare master plan drawings for the renovation of a one-family house.

Other information:

The course is intended for the registered students of the Oulu School of Architecture only.

454501A: Urban Design, seminar course, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Tarja Outila

Opintokohteen kielet: Finnish

ECTS Credits:

5

Language of instruction:

Finnish (study materials mainly in English).

Timing:

Autumn term 1-2

Learning outcomes:

Having completed the study unit a student is familiar with seminar practices and identifies the most significant books on urban design theory. The student is also able to write an interpretative summary on literature from a given perspective.

Contents:

The study unit comprises of seminars (book presentations, discussions, and group tutoring) and of writing an interpretative summary of a book on urban design theory. The perspective for interpretation changes annually.

Mode of delivery:

Contact teaching and independent studying.

Learning activities and teaching methods:

12 h lectures (including seminars) + 18 h tutoring + 105 h independent studying.

Target group:

2nd year Bachelor level students.

Prerequisites and co-requisites:

-

Recommended optional programme components:

Implementation in collaboration with English for Urban Design and Planning 902152Y study unit.

Recommended or required reading:

Classic books on urban design theory.

Assessment methods and criteria:

The student participates in all seminars and delivers an exercise, which is conducted in pairs. The evaluation is based on the outcome of the exercise (75 %) and active participation in seminar discussions (25 %).

Grading:

1-5

Person responsible:

Postdoctoral Researcher Leena Soudunsaari

Working life cooperation:

-

Other information:

This study unit is taught both in Finnish and English but intended for registered bachelor level students of the Oulu School of Architecture only. When implemented in collaboration with English for Urban Design and Planning 902152Y, the exercise will be written in English.

454523A: Neighborhood Design, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Tarja Outila

Opintokohteen kielet: Finnish

ECTS Credits:

5

Language of instruction:

Finnish

Timing:

Spring term 1

Learning outcomes:

After completion of this study unit the student will be able to describe the basic factors that affect the interdependence between spatial design and functional planning as well as recognize the principles of interaction between the human being, nature and the built environment. The student is able to formulate and define objectives of urban design. The student will be able to perceive the specific characteristics of a given area and produce a design that corresponds to the level of a general town plan.

Contents:

The lectures cover basic aspects that affect the spatial design of a given area and the planning of different functions therein. The main elements of urban structure and form for the built environment and residential functions will be explained. In addition, residential areas are examined as perceived living environments and the factors conducive to health promotion in urban environments are dealt with. The exercise consists of designing a plan on the level of a general town plan.

Mode of delivery:

Contact teaching and independent studying.

Learning activities and teaching methods:

12 h lectures + 58 h contact teaching in design studio + 65 h independent studying.

Target group:

2nd year Bachelor level students.

Prerequisites and co-requisites:

History of Urban Design (454521P)

Recommended optional programme components:

-

Recommended or required reading:

Lecture notes and *Asuinalue suunnittelu*, Jalkanen, R., Kajaste, T. et al., Rakennustieto, Helsinki, ISBN 951-682-438-2.

Assessment methods and criteria:

Exercise (design project) 2/3 of grade, exam 1/3 of grade

Grading:

1-5

Person responsible:

University Lecturer Kari Nykänen

Working life cooperation:

-

Other information:

This study unit is taught entirely in Finnish and intended for registered bachelor level students of the Oulu School of Architecture only.

451504A: History of Architecture III, 3 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Petri Vuojala

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay451504A History of Architecture III (OPEN UNI) 3.0 op

ECTS Credits:

3

Language of instruction:

Finnish (literature in English and Swedish)

Timing:

Autumn term 2 and spring term I

Learning outcomes:

The aim is to provide basic knowledge on the history of the Scandinavian and Finnish architecture from the prehistory until the 20th century.

After completing the course the student masters the historical background of the architecture of Finland and Scandinavia starting from pre-historical times. The student recognizes the temporal and stylistic layers of the history of our building tradition and is able to explicate features of Finland's architectural evolution in a relation with the international development and especially in correlation to Sweden and the other Nordic countries.

Contents:

Lecture discusses the history of architecture in Scandinavia and especially in Finland from prehistory till 20th C.

Mode of delivery:

Lectures, additionally independent studies.

Learning activities and teaching methods:

Lectures 36 h

Target group:

3rd year Bachelor level students.

Prerequisites and co-requisites:

History of architecture I and II, lecture courses (451535P and 451537A)

Recommended optional programme components:

The course is related to the History of Architecture III, practices course (451505A). Together with the Architecture III, practices course, this course can form the Bachelor's diploma work (8 ECTS) of the Bachelor's degree.

Recommended or required reading:

Handouts, digital slides. A literature list will be handed out during the course.

Assessment methods and criteria:

Assessment is based learning diary or written examination.

Grading:

1-5

Person responsible:

Professor Anna-Maija Ylimaula, University lecturer N.N.

Working life cooperation:

-

Other information:

-

Select second domestic language

901046Y: Second Official Language (Swedish), Written Skills, 1 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Languages and Communication

Opintokohteen kielet: Swedish

901047Y: Second Official Language (Swedish), Oral Skills, 1 op**Voimassaolo:** 01.08.2014 -**Opiskelumuoto:** Language and Communication Studies**Laji:** Course**Vastuuyksikkö:** Languages and Communication**Opintokohteen kielet:** Swedish**900081Y: Second Official Language (Finnish), Written Skills, 1 - 2 op****Voimassaolo:** 01.01.2015 -**Opiskelumuoto:** Language and Communication Studies**Laji:** Course**Vastuuyksikkö:** Languages and Communication**Opintokohteen kielet:** Finnish**900082Y: Second Official Language (Finnish), Oral Skills, 1 - 3 op****Voimassaolo:** 01.01.2015 -**Opiskelumuoto:** Language and Communication Studies**Laji:** Course**Vastuuyksikkö:** Languages and Communication**Opintokohteen kielet:** Finnish*Select courses in one foreign language, totaling 6 cr***903012P: Technical German 3, 6 op****Voimassaolo:** 01.08.1995 -**Opiskelumuoto:** Basic Studies**Laji:** Course**Vastuuyksikkö:** Languages and Communication**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** German**904054P: Technical Russian 1, 7,5 op****Voimassaolo:** 01.08.1995 -**Opiskelumuoto:** Basic Studies**Laji:** Course**Vastuuyksikkö:** Languages and Communication**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Russian**Proficiency level:**

A2/B1 on the CEFR scale.

Status:

See the study guide of your degree programme.

Required proficiency level:

A2

ECTS Credits:

6 ECTS credits

Language of instruction:

Russian and Finnish

Timing:

Students who wish to participate in this course are asked to contact the course's teacher at the beginning of September.

Learning outcomes:

The course aims to give the student the means to manage in common communication situations and understand spoken and written Russian in professional contexts and discuss questions related to his/her special field.

Contents:

Various modes of studying: handouts, discussion exercises and language lab sessions.

Mode of delivery:

Group- and independent work.

Learning activities and teaching methods:

Self-study and group work.

Target group:

Students of the Faculty of Technology.

Prerequisites and co-requisites:

Elementary and intermediate courses in Russian or equivalent knowledge.

Recommended optional programme components:

-

Recommended or required reading:

Material provided by the teacher.

Assessment methods and criteria:

Regular and active participation. Completion of the given assignments.
Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

Pass / fail

Person responsible:

Ari Hepo-aho

Working life cooperation:

-

Other information:

-

902151Y: English for Architecture (ArkTK), 2 - 3 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Languages and Communication

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: English

Voidaan suorittaa useasti: Kyllä

Proficiency level:

CEFR B2 - C1

Status:

See the compulsory foreign language requirements for your own degree programme.

Required proficiency level:

Students are expected to have studied English as an "A" or "B" language at school, or have reached an equivalent level of skills. If you need to take English, but lack this background, please get in touch with the Languages and Communication contact teacher (Eva Braidwood) to discuss individual solutions.

ECTS Credits:

3 ECTS credits

Language of instruction:

English

Timing:

In the School of Architecture, your English language and communication studies take place in the spring term of your first year and continue in the autumn of the second year. This course is organized in the spring. The course is offered in two versions, one for 2 op and one for 3 op (54 hrs work and 80 hrs work). Students with the matriculation exam grade *laudatur* or *eximia cum laude approbatur* take the 2 op course and others take the 3 op course.

Learning outcomes:

By the end of the course, students will be able to

- demonstrate appropriate use of professional vocabulary;
- develop efficient strategies and methods for maintaining their English proficiency;
- use professional vocabulary and discourse patterns when describing architectural design;
- demonstrate oral and written skills and presentation techniques necessary for working in a multicultural environment.

Contents:

In this course, you will focus on developing oral and written English language skills, which enable you to follow developments in your own field of architecture and get along in an international environment with a sufficient level of proficiency.

The course provides students with the opportunity to develop professional and academic communication and field-related competences. Students will participate in simulated professional events including a project presentation, building/design presentation, discussion and critiquing of architectural solutions and case studies.

Mode of delivery:

This teaching is offered in the School of Architecture in the form of contact teaching and independent study.

Learning activities and teaching methods:

-

Target group:

Students of Architecture

Prerequisites and co-requisites:

See Required Proficiency Level

Recommended optional programme components:

See Status

Recommended or required reading:

The course is based on a selection of special language learning materials and field-related literature, and audio and visual material. The course material will be provided by the teacher. Lesson handouts and supplementary material are available during the course in Optima.

Assessment methods and criteria:

You are required to participate regularly in all contact teaching provided. Assessment will be based on the satisfactory completion of the course tasks and achievement of the learning outcomes.

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

Grading:

pass/fail.

Person responsible:

Eva Braidwood

Working life cooperation:

-

Other information:

Students with the matriculation exam grade *laudatur* or *eximia cum laude approbatur*, or who have graduated from an IB -program will be exempted from one part of the course (1 op) and will be required to complete a 2 op version of the course.

902152Y: English for Urban Planning (ArkTK), 2 - 3 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Languages and Communication

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: English

Voidaan suorittaa useasti: Kyllä

Proficiency level:

CEFR B2 - C1

Status:

Compulsory

Required proficiency level:

Students are expected to have studied English as an "A" or "B" language at school, or have reached an equivalent level of skills. If you need to take English, but lack this background, please get in touch with the Languages and Communication contact teacher to discuss individual solutions.

ECTS Credits:

2/3 op (ECTS credits) (54 / 80 hrs work)

Language of instruction:

English

Timing:

In the School of Architecture, your English studies take place in the spring term of your first year and continue in the autumn of the second year. This course is offered for 2nd year students of architecture in the autumn semester.

Learning outcomes:

By the end of the course, students will be able to

- demonstrate appropriate use of field-specific vocabulary required for professional communication in English,
- use English in field-specific academic writing presentations,
- follow the conventions in critiquing the built environment, urban design and planning projects, and reviewing field-related literature,
- work efficiently in cooperation and contribute effectively to urban design-related projects.

Contents:

In this course, you will focus on developing presentation skills and format/academic writing skills in English, which enable you to follow developments in your own field of architecture and urban design and planning. This course is integrated with your subject course in urban design and planning (454501A Kaupunkisuunnittelun seminaarikurssi). In the first part of the course you will study professional criteria for critiquing residential districts and leading examples of urban development, and then present your own case study of a Finnish residential district (12/20 hrs). In the second part, you will write an argumentative essay / book review, which will be based on a compulsory text to be read in the Course for Urban Design and Planning (kaupunkisuunnittelu seminaari). The essay will follow the conventions of academic and scientific writing, which you will practice in this course of English for Urban Design and Planning (42/60 hrs).

Mode of delivery:

This teaching is offered in the School of Architecture in the form of contact teaching and independent study using Optima, our online learning environment. The integrated part of the course is supported by a common online platform of the two courses.

Learning activities and teaching methods:

Reading professional material, journal articles, books; discussion in workshops; presentation of case study; writing an academic essay.

Target group:

Students of Architecture

Prerequisites and co-requisites:

See Required Proficiency Level

Recommended optional programme components:

902151Y English for Architecture 2/3 ECTS credits

Recommended or required reading:

The course is based on a selection of special language learning materials and field-related literature, and audio and visual material. The course material will be provided by the teacher and will be available in Optima during the course.

Assessment methods and criteria:

This course is compulsory for all students of architecture. You are required to participate regularly in all contact teaching provided. Assessment will be based on the satisfactory completion of the course tasks and achievement of the learning outcomes. Detailed assessment criteria will be provided by the teacher. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

pass/fail.

Person responsible:

Eva Braidwood

Working life cooperation:

-

Other information:

Students with the matriculation exam grade *laudatur* or *eximia cum laude approbatur*, or who have graduated from an IB -programme will be exempted from one part of the course (1 ECTS credits) and will be required to complete a 2 ECTS credits version of the course.

A410121: Orientation Module, Architecture, 40 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Module Preparing for the Option

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

Compulsory courses

454504A: Town Planning, 10 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Tarja Outila

Opintokohteen kielet: Finnish

ECTS Credits:

10

Language of instruction:

Finnish

Timing:

Autumn term 1

Learning outcomes:

After completing the course the student can name the main principles of the Finnish planning system and the process of town planning. The student is able to define the objectives of planning and the appearance of a town plan document. The student is able to describe and recognize the various technical symbols and regulations in planning. Furthermore, the student is able to apply the learning outcome to a town plan level design exercise and produce documents, corresponding to an official town plan. The student can also describe main principles of sustainable planning.

Contents:

Lectures deal with different aspects of sustainable urban planning, the Finnish land use planning system, planning process and regulations. The course deals also with the planning of residential areas, traffic and urban landscapes. The town planning exercise will be completed using a special CAD program for town planning.

Mode of delivery:

Contact teaching plus independent studying.

Learning activities and teaching methods:

24 h lectures + 86 h contact teaching in design studio + 160 h independent studying.

Target group:

3rd year Bachelor level students.

Prerequisites and co-requisites:

Neighbourhood Design (454523A)

Recommended optional programme components:

Design project is connected with courses Housing Design (452507A) and Design of Apartment Blocks (453504A).

Recommended or required reading:

Study compendium. Recommended literature will be announced separately.

Assessment methods and criteria:

Exercise (design project, workshop and exam). Exercise (design project) 2/3 of grade, exam 1/3 of grade.

Grading:

1-5

Person responsible:

University Lecturer Kari Nykänen.

Working life cooperation:

An introduction to the different planning professions of town planning project will be given during the course. The planning exercise can deal with a real design project or be organized as a student competition.

Other information:

The town planning course offers one option for a Bachelor's thesis. Separate instruction will be available. This study unit is taught entirely in Finnish and intended for registered bachelor level students of the Oulu School of Architecture only.

452507A: Housing Design, 10 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Mahlamäki Rainer

Opintokohteen kielet: Finnish

ECTS Credits:

10

Language of instruction:

Finnish

Timing:

Autumn semester / spring semester

Learning outcomes:

The objective of the course is to initiate the students through lectures and exercises into the bases of the housing design. Learning outcomes: After completing the course the student understands the characteristics of different housing and dwelling typologies, the measures of the dwellings, basic technical facts as well as main points of the history of the Finnish Housing. After completing the course the student is able to present a sketch design of a simple block of flats.

Contents:

The course consists of lectures, design task and participation to the critique-sessions organized together with the teaching unit of Building Science.

Mode of delivery:

Lectures and face-to-face teaching. The design task will be tutored mainly in groups.

Learning activities and teaching methods:

A housing design task is included in the course. The course is the second part of the 3rd year joint design project.

Target group:

3rd year bachelor students

Prerequisites and co-requisites:

Contemporary architecture I-II.

Recommended optional programme components:

Design project is connected with courses Town Planning and Design of Apartment Blocks. The teaching unit of Contemporary Architecture offers lectures in first half and tutoring for the exercise mainly in second half of the autumn term.

Recommended or required reading:

Course handout; Kahri, Pyykönen: Asuntosuunnittelu.

Assessment methods and criteria:

The course is completed by participating the lectures and performing the design task. The exercise will be graded after the course Design of Apartment Blocks is completed and will be based on the evaluation of the overall architectural quality, which is the final grading.

Grading:

1 - 5, pass / fail

Person responsible:

Professor Rainer Mahlamäki

Working life cooperation:

The project work trains the student's design skills needed in the architect's profession.

Other information:

This studio course is intended for registered bachelor level students of the Oulu School of Architecture.

452529A: Contemporary Architecture III, 10 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Mahlamäki Rainer

Opintokohteen kielet: Finnish

ECTS Credits:

10

Language of instruction:

Finnish

Timing:

Autumn term

Learning outcomes:

The objective of the course is to initiate the students through lectures and exercises into the architecture and design principles of public buildings. Learning outcomes: After completing the course the student understands bases for the designing of public buildings, such as functionality, site-specification and general architectural solution. After completing the course the student is able to present a design of a small public building with the help of drawings and a scale model.

Contents:

The lectures deal contemporary architecture by analyzing for example schools, libraries, exhibition buildings and sacral buildings. There are both domestic and international examples. The lectures deal also with current features as well as the effects of technical solutions to the architecture of the building. Guest lectures are part of the course program.

Mode of delivery:

Lectures and face-to-face teaching

Learning activities and teaching methods:

The design task is a tutored exercise or an architectural competition of a small public building. The exercise is tutored in common studio sessions and intermediate critiques. The completed works are presented in an open critique.

Target group:

3rd year bachelor students

Prerequisites and co-requisites:

Contemporary architecture I-II.

Recommended optional programme components:

The course continues the teachings offered within the Contemporary Architecture I-II courses, but in this case focusing on the design of a public building. Contemporary Architecture III course offers one option for a Bachelors' thesis. Separate instructions are provided during the course.

Recommended or required reading:

Summary of the lectures. List of readings will be handed out at the lectures.

Assessment methods and criteria:

Exercise (design project and possible exam). The form of the exam will be announced each year. The grading is based on evaluation of the achieved goals of the task, quality of the exercise and exam

Grading:

1-5

Person responsible:

Professor Rainer Mahlamäki

Working life cooperation:

The project work trains the student's design skills needed in the architect's profession.

Other information:

This studio course is intended for registered bachelor level students of the Oulu School of Architecture.

453504A: Design of Apartment Blocks, 10 op**Voimassaolo:** 01.08.2015 -**Opiskelumuoto:** Intermediate Studies**Laji:** Course**Vastuuyksikkö:** Oulu School of Architecture**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**ECTS Credits:**

10 ECTS

Language of instruction:

Finnish

Timing:

spring term

Learning outcomes:

After completing the course the student can explain the functional principles of the building parts and structures of a multi-storey building and implement these principles in construction design of main structural elements and complimentary building parts. The student is able to design a block of flats which fulfils the building regulations and to produce its working and detail drawings.

Contents:

The content of the course is defined in connection with the assignment of the exercise project. To introduce students to the essential issues within architectural construction and to provide the student with skills to work within the architectural design of energy efficient apartment houses according to the principles of sustainability.

Mode of delivery:

Face-to-face teaching, independent working.

Learning activities and teaching methods:

34 hours of lectures, 90 hours face-to-face teaching in the studio, 146 hours of independent working

Target group:3rd year bachelor level students**Prerequisites and co-requisites:**

Completion of Architectural Construction, basic course. The exercise is a part of the compulsory joint studio course arranged in collaboration with the Laboratories of Contemporary Architecture and Urban Design. The student may present the project of the course as his/her Bachelor's work.

Recommended optional programme components:

Techniques of Plumbing, Heating and Ventilation -course and Electrical Installations -course.

Recommended or required reading:

List of readings will be handed out during the course.

Assessment methods and criteria:

The evaluation is based on the outcome of the exercise work and the learning diary.

Grading:

1-5

Person responsible:

Professor Janne Pihlajaniemi, university teacher Petri Aarnio

Working life cooperation:

The guidance of the exercise is partly based on tutelage given by architects working in the design profession.

Other information:

-

453510A: Techniques of Plumbing, Heating and Ventilation, 3 op**Voimassaolo:** 01.08.2005 -**Opiskelumuoto:** Intermediate Studies**Laji:** Course**Vastuuyksikkö:** Oulu School of Architecture**Arvostelu:** 1 - 5, pass, fail**Opettajat:** Pentti Kuurola**Opintokohteen kielet:** Finnish**Leikkaavuudet:**

485506A Heating, Ventilation and Air Conditioning Technology 3.0 op

ECTS Credits:

3 ECTS

Language of instruction:

Finnish

Timing:

autumn and spring terms

Learning outcomes:

After completing the course the student recognizes the essential PHV-technical drawing symbols, can read the drawings and define the space requirements for the PHV-technical systems. Furthermore he/she can present how the assembly, maintenance and observability of the damages has to be taken care in the design and realization of the systems. The student can also explain the impact of the PHV-systems to the energy efficiency, indoor air quality and comfort of the buildings.

Mode of delivery:

Face-to-face teaching, independent working.

Learning activities and teaching methods:

20 hours of lectures, 25 hours of tutoring, 36 hours of independent working.

Target group:3rd year bachelor level students**Prerequisites and co-requisites:**

-

Recommended optional programme components:

The project assignment will be done together with the Design of Apartment Blocks –course assignment.

Recommended or required reading:

List of readings will be handed out during the course.

Assessment methods and criteria:

Lectures, exercises and a possible exam.

Grading:

1-5

Person responsible:

Engineer Pentti Kuurola

Working life cooperation:

The teacher in charge works in the field of HVAC planning.

Other information:

-

453511A: Electrical Installation, 2 op**Voimassaolo:** 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Jorma Korkalo

Opintokohteen kielet: Finnish

ECTS Credits:

2 ECTS

Language of instruction:

Finnish

Timing:

spring terms

Learning outcomes:

After completing the course the student recognizes the essential electrical drawing symbols, can read the drawings and define the space requirements for the electrical systems. Furthermore he/she can present how the assembly and maintenance has to be taken care in the design. The student can also explain the essential criteria for the artificial lighting.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

18 hours of lectures, 6 hours of tutoring, 30 hours of independent working.

Target group:

3rd year bachelor level students

Prerequisites and co-requisites:

-

Recommended optional programme components:

The project assignment will be done together with the Design of Apartment Blocks –course assignment.

Recommended or required reading:

List of readings will be handed out during the course.

Assessment methods and criteria:

Lectures, exercises. The evaluation is based on the exercise.

Grading:

1-5

Person responsible:

Engineer Jorma Korkalo

Working life cooperation:

The teacher in charge works in the field of electrical installations consulting.

Other information:

-

455990A: Bachelor's Thesis / Architecture, 8 op

Voimassaolo: 01.08.2007 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

8 ECTS

Language of instruction:

Finnish

Timing:

Spring term of the 3rd year of bachelor's degree studies

Learning outcomes:

The student is able to utilize the acquired knowledge and apply learned skills in practical design work. The student is able to solve design problems and visualize solutions in different scales, and implement various possibilities of visual expression in independent creative work.

Contents:

The student elaborates one of the compulsory design exercises of the 3rd year bachelor's courses completed for the respective teaching unit (Contemporary Architecture III, Town Planning, Housing Design, Design of Apartment Blocks or History of Architecture III Studio Course) according to the Bachelor's thesis instructions provided by the school.

Mode of delivery:

Individual project work and contact teaching in studio and computer lab.

Learning activities and teaching methods:

The bachelor's thesis completes the bachelor level studies. The bachelor's thesis is a design project supervised by the teaching unit whose exercise has been selected as the basis for the bachelor's project. The final outcome is presented in the common bachelor's seminar in May.

Target group:3rd year bachelor students**Prerequisites and co-requisites:**

Compulsory basic and intermediate studies and the 3rd year studio exercise which has been selected by the student as the basis for the bachelor's thesis project.

Recommended optional programme components:

study units included in the preparatory module

Recommended or required reading:

The materials of the course which includes the studio project that the student has selected for the basis of his/her bachelor's thesis

Assessment methods and criteria:

The student follows the guidelines given by the supervising teaching unit and the general bachelor's thesis instructions of the Oulu School of Architecture. The thesis project is presented as a slide show (pdf or ppt) by the student in the Bachelor's seminar at the end of the study year. The student submits the finalized thesis electronically into the Laturi system of the University Library for reviewing and publication.

Grading:

pass / fail

Person responsible:

Professor of the supervising teaching unit

Working life cooperation:

The bachelor's thesis is based on the integrated common studio project of the 3rd year study program. The project is carried out as a typical real working-life design project, proceeding from an areal town plan and urban visualization to outlining a group of multi-story apartment buildings, and further on to detailed working drawings of an apartment block. The selected starting point for the integrated studio generally is an urban development project of current interest. External experts, such as city planning officers and representatives of local building companies, may be involved. A major part of the teachers are operating also as practicing architects outside the university.

Other information:

Detailed bachelor's thesis instructions are published on the school's web pages.

030005P: Information Skills, 1 op**Opiskelumuoto:** Basic Studies**Laji:** Course**Vastuuyksikkö:** Faculty of Technology**Arvostelu:** 1 - 5, pass, fail**Opettajat:** Ursula Heinikoski**Opintokohteen kielet:** Finnish**Leikkaavuudet:**

030004P Introduction to Information Retrieval 0.0 op

ECTS Credits:

1 ECTS credits / 27 hours of work

Language of instruction:

Finnish

Timing:

Architecture 3. spring semester, period I; Biochemistry 3. autumn semester; Biology 3. autumn semester, period I; Chemistry 3. autumn semester, period II; Computer Science and Engineering 2. spring semester, period IV; Electronics and Communications Engineering 3. spring semester; Geosciences 2. spring semester, period IV; Geography 1. and 3. spring semester, period III; Industrial Engineering and Management 3. year (Master's degree students in Industrial Engineering and Management 1st year.); Information Processing Sciences 1. year; Mathematics and Physics 1. spring semester, period III; Mechanical Engineering 3. year; Mining Engineering and Mineral Processing 3. year; Process and Environmental Engineering 2. year, period II.

Learning outcomes:

Upon completion of the course, the students:

- can search scientific information,
- can use the most important databases of their discipline,
- know how to evaluate search results and information sources,
- can use the reference management tool

Contents:

Scientific information retrieval process, the most important databases and publication channels of the discipline, evaluation of the reliability of information sources and RefWorks reference management tool.

Mode of delivery:

Blended teaching: classroom training, web-based learning material and exercises, a group assignment.

Learning activities and teaching methods:

Training sessions 8 h, group working 7 h, self-study 12 h

Target group:

Compulsory for all bachelor degree students of Faculty of Information Technology and Electrical Engineering, Faculty of Technology and Faculty of Science. Compulsory also for those Master's degree students in Industrial Engineering and Management who have no earlier studies in the information skills. Optional for the students of biochemistry.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Web learning material Tieteellisen tiedonhankinnan opas <http://libguides oulu.fi/tieteellintiedonhankinta> (in Finnish)

Assessment methods and criteria:

Passing the course requires participation in the training sessions and successful completion of the course assignments.

Grading:

pass/fail

Person responsible:

Ursula Heinikoski

Working life cooperation:

-

Other information:

-

450522A: Seminar, 1 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

1

Language of instruction:

Finnish

Timing:

Spring term 2

Learning outcomes:

The student is able to express himself both linguistically and in writing as well as to communicate and transmit visual information

Contents:

The student presents his bachelor's thesis work in the seminar. The teachers participating in the seminar give oral feed-back on the project.

Mode of delivery:

The two days seminar is takes place in a lecture room and the exhibition space.

Learning activities and teaching methods:

The student present his bachelor's work in the seminar as a pdf or ppt presentation, using the data projector. For the exhibition of the bachelor's works the student prints A3 size prints of each panel of the bachelor's project according to the detailed instructions given by the respective teaching unit.

Target group:

3rd year bachelor students

Prerequisites and co-requisites:

Bachelor's work.

Recommended optional programme components:

The seminar is part of the he bachelor's thesis work.

Recommended or required reading:

-

Assessment methods and criteria:

Participation in the seminar

Grading:

pass / fail

Person responsible:

Professor of the supervising teaching unit

Working life cooperation:

The seminar trains and develops the students' skills in communication and presentation for working life.

Other information:

Separate detailed bachelor's work instructions are published on the web pages of the School of Architecture.

450013A: The Maturity Test for Bachelor's Degree, 0 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

8 ECTS

Language of instruction:

Finnish / Swedish

Timing:

Spring term 2

Learning outcomes:

The student is able to communicate in Finnish or in Swedish and is able to express himself both linguistically and in writing.

Contents:

Written essay.

Mode of delivery:

The essay is written in exam-like conditions on a given subject.

Learning activities and teaching methods:

Written essay. The maturity test is a part of the bachelor's dissertation.

Target group:

3rd year bachelor students

Prerequisites and co-requisites:

Bachelor's work.

Recommended optional programme components:

The maturity test is linked with the bachelor's work.

Recommended or required reading:

-

Assessment methods and criteria:

The recommended extent of the essay is 3 pages.

Grading:

pass / fail

Person responsible:

Professor of the supervising teaching unit

Working life cooperation:

-

Other information:

-

A410171: Optional Studies, Bachelor of Science (Architecture), 10 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Optional Studies

Laji: Study module

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

Tutkintorakenteisiin kuulumattomien opintokokonaisuuksien ja -jaksojen kuvaukset**450553P: 3ds Max basics, 1 op**

Voimassaolo: 01.08.2017 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

1

Language of instruction:

Finnish

Timing:

varying

Learning outcomes:

Students are able to transfer 3d models between 3ds MAX and other CAD and image processing software, supplement them and produce photorealistic images.

Contents:

Import/export, editors, material, lightning, camera and calculation settings.

Mode of delivery:

Lectures and course work.

Target group:

-

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Software help files and handouts.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

n.n.

Working life cooperation:

Students will learn to use the modeling and rendering basics of 3ds Max software and apply those skills in hands-on work such as conceptual drawing renderings.

Other information:

Introduction to 3Ds MAX modelling and illustration rendering in conjunction with other CAD software. The course is intended for registered students of the Oulu School of Architecture only.

450551P: A1 ArchiCAD basics, 2 op**Voimassaolo:** 01.08.2017 -**Opiskelumuoto:** Basic Studies**Laji:** Course**Vastuuyksikkö:** Oulu School of Architecture**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**ECTS Credits:**

2

Language of instruction:

Finnish

Timing:

autumn and spring semester

Learning outcomes:

Students are able to produce basic presentation drawings based on the information model using basic tools and know the essentials to producing building permit drawings.

Contents:

Project management, detailing tools, section, facade and perspective views.

Mode of delivery:

Lectures and course work.

Target group:

2nd year bachelor students

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Software help files and handouts.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the Oulu School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

n.n.

Working life cooperation:

Students will learn to use the basics of Archicad software and apply those skills in hands-on work.

Other information:

Introduction to conventional Building Information Modelling in Archicad.

The course is intended for registered students of the Oulu School of Architecture only.

450552P: A3Autocad basics, 1 op

Voimassaolo: 01.08.2017 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

1

Language of instruction:

Finnish

Timing:

autumn semester

Learning outcomes:

Students are able to produce basic presentation drawings based on the information model using basic tools and know the essentials to producing building permit drawings.

Contents:

Project management, detailing tools, section, facade and perspective views.

Mode of delivery:

Lectures and practice work.

Learning activities and teaching methods:

-

Target group:

2nd year bachelor students

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Software help files and handouts.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

n.n.

Working life cooperation:

Students will learn to use the basics of Archicad software and apply those skills in hands-on work.

Other information:

Introduction to conventional Building Information Modelling in AutoCAD Architecture Environment. The course is intended for registered students of the Oulu School of Architecture only.

450540A: Archicad Advanced, 2 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2

Language of instruction:

Finnish

Timing:

varying

Learning outcomes:

Students are able to produce complex building components and detail models into the Building Information Model and schedules from the information gathered.

Contents:

Self-made objects, complex forms, schedules and legends.

Mode of delivery:

Lectures and course work.

Prerequisites and co-requisites:

450551P A1 Archicad basics

Recommended optional programme components:

-

Recommended or required reading:

Software help files and handouts.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the Oulu School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

n.n.

Working life cooperation:

Students will learn to use the advanced skills of ArchiCAD software and apply those skills in hands-on work.

Other information:

Introduction to advanced Building Information Modelling in Archicad.

The course is intended for registered students of the Oulu School of Architecture only.

450543A: Archicad Advanced, 1 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

1

Language of instruction:

Finnish

Timing:

varying

Learning outcomes:

Students are able to produce complex building components and detail models into the Building Information Model and schedules from the information gathered.

Contents:

Self-made objects, complex forms, schedules and legends.

Mode of delivery:

Lectures and course work.

Learning activities and teaching methods:

Contact teaching 16 h, independent exercises 11 h.

Target group:

-

Prerequisites and co-requisites:

ArchiCAD basics course

Recommended optional programme components:

-

Recommended or required reading:

Software help files.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the Oulu School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

NN

Working life cooperation:

Students will learn to use the advanced skills of ArchiCAD software and apply those skills in hands-on work.

Other information:

Introduction to advanced Building Information Modelling in Archicad. The course is intended for registered students of the Oulu School of Architecture only.

453521P: Basics of Architectural Construction, lecture course, 3 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Jari Heikkilä

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay453521P Basics of Architectural Construction, lecture course (OPEN UNI) 3.0 op

ECTS Credits:

3 ECTS

Language of instruction:

Finnish

Timing:

spring term

Learning outcomes:

After completing the course the student can explain the basic concepts of architectural construction and present the functional principles of the building parts and structures of a wood constructed one-family house.

Contents:

Lectures on the education and the position of an architect in a building project, building concepts, basics of structural technology and building physics. Students are given general data on architectural construction and on the functional requirements set for building parts.

Mode of delivery:

Face-to-face teaching, independent working.

Learning activities and teaching methods:

34 hours of lectures, 47 hours of independent working.

Target group:

1st year bachelor students

Prerequisites and co-requisites:

-

Recommended optional programme components:

The courses of the basics of Building Physics and Structural Technology (basic course) are recommended to take at the same time.

Recommended or required reading:

List of readings will be handed out during the course.

Assessment methods and criteria:

The evaluation is based on the exam.

Grading:

1-5

Person responsible:

Docent Jari Heikkilä

Working life cooperation:

The course includes a lecture concerning the professional practice of architects, which is given to the students in the beginning of the studies.

T

Other information:

-

453522P: Basics of Architectural Construction, studio course, 7 op**Voimassaolo:** 01.08.2012 -**Opiskelumuoto:** Basic Studies**Laji:** Course**Vastuuyksikkö:** Oulu School of Architecture**Arvostelu:** 1 - 5, pass, fail**Opettajat:** Janne Pihlajaniemi**Opintokohteen kielet:** Finnish**ECTS Credits:**

7 ECTS

Language of instruction:

Finnish

Timing:

spring terms

Learning outcomes:

After completing the course the student knows the basics of designing a wood-framed single-family house.

Contents:

The course includes the design of a wood frame house. The aim of the course is to familiarize the student in detail with constructions and design of wood-framed one-family houses.

Mode of delivery:

Face-to-face teaching, Independent working.

Learning activities and teaching methods:

10 hours lectures, 82 hours face-to-face teaching in the studio, an excursion to the realized projects, 97 hours of independent working.

Target group:2nd year bachelor level students**Prerequisites and co-requisites:**

Contemporary Architecture I –course, Basics of Architectural Construction, lecture course, Basics of Building Physics and Basics of Structural Technology .

Recommended optional programme components:

Wooden Structures –course is recommended to take at the same time.

Recommended or required reading:

List of readings will be handed out during the course.

Assessment methods and criteria:

The evaluation is based on the outcome of the exercise work. No exam is included in the course.

Grading:

1-5

Person responsible:

professor Janne Pihlajaniemi, university teacher Petri Aarnio (coordinator)

Working life cooperation:

A visit to the construction site of the wooden frame building. The guidance of the exercise is partly based on tutelage given by architects working in the design profession.

Other information:

-

453535P: Basics of Building Physics, 2 op**Voimassaolo:** 01.08.2005 -**Opiskelumuoto:** Basic Studies**Laji:** Course**Vastuuyksikkö:** Oulu School of Architecture**Arvostelu:** 1 - 5, pass, fail

Opettajat: Pirkola, Heikki Juhani

Opintokohteen kielet: Finnish

ECTS Credits:

2 ECTS

Language of instruction:

Finnish

Timing:

Spring term

Learning outcomes:

Upon completion of the course the student identifies and understand basic building physic terms like heat, moisture, air permeability in the structures and is able to determine most typical key ratios for structures. Student is able to understand most common building materials and their effect on the indoor air of buildings. Student is able to understand the basics of low energy constructions.

Contents:

living and structures before and now, thermal conductivity in structures, typical key ratios of structures, vapour and air permeability in structures, sources of moisture, air quality in buildings and low energy building

Mode of delivery:

Contact teaching and independent studying

Learning activities and teaching methods:

16 hours of lectures, 38 hours of independent working

Target group:

1st year bachelor level students.

Prerequisites and co-requisites:

-

Recommended optional programme components:

The course is recommended to be taken before the Basics of Architectural Construction, studio course

Recommended or required reading:

Material given and shown in the lectures. Course literature will be announced separately.

Assessment methods and criteria:

The evaluation is based mainly on the exam.

Grading:

1-5

Person responsible:

NN

Working life cooperation:

-

Other information:

-

456527S: Condition Assessment of Buildings, 5 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Anu-Sisko Soikkeli

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

452504A: Contemporary Architecture IV, 15 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail
Opettajat: Mahlamäki Rainer
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

455522S: Design in Urban Context, 10 op

Voimassaolo: 01.08.2012 -
Opiskelumuoto: Advanced Studies
Laji: Course
Vastuuyksikkö: Oulu School of Architecture
Arvostelu: 1 - 5, pass, fail
Opettajat: Aulikki Herneoja
Opintokohteen kielet: English

Ei opintojaksokuvauksia.

453508A: Energy Efficient Building, lecture course, 5 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Intermediate Studies
Laji: Course
Vastuuyksikkö: Oulu School of Architecture
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

451511A: Historic Preservation, 10 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Intermediate Studies
Laji: Course
Vastuuyksikkö: Oulu School of Architecture
Arvostelu: 1 - 5, pass, fail
Opettajat: Özlem Özer-Kemppainen
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

451505A: History of Architecture III practices, 5 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies
Laji: Course
Vastuuyksikkö: Oulu School of Architecture
Arvostelu: 1 - 5, pass, fail
Opettajat: Özlem Özer-Kemppainen
Opintokohteen kielet: Finnish

ECTS Credits:

5

Language of instruction:

Finnish (literature partly in English)

Timing:

Spring term I and 2

Learning outcomes:

The aim of the course is to teach how to do the restoration plan of a small-scale historical building. The course concentrates on the evaluation of building heritage and the architectural design for the re-use of a historical building. Students learn to observe, analyse and evaluate the special requirements of the historical building particularly when its function is converted into new use.

Contents:

The restoration plan of a small-scale historical building which is based on the assessment and evaluation of the building. The student may present the project of the course as Bachelor's diploma work.

Mode of delivery:

Contact teaching, additionally independent studies.

Learning activities and teaching methods:

50 h contact teaching in design studio. Field trips.

Target group:

Elective course. 3rd year Bachelor level students. The student may present the project of the course as Bachelor's diploma work.

Prerequisites and co-requisites:

-

Recommended optional programme components:

The course is an elective course. The course is related to the History of Architecture III, lecture course (451504A). Together with the Architecture III, lecture course, this course can form the Bachelor's diploma work (8 ECTS) of the Bachelor degree.

Recommended or required reading:

The lecture material and other materials concerning the course will be uploaded to the network drive of the faculty. A list of literature will be handed out during the course.

Assessment methods and criteria:

Students participate in lectures, field work and evaluation sessions and present a restoration plan. The evaluation is based on the quality of the restoration project.

Grading:

1-5

Person responsible:

Professor Anna-Maija Ylimaula, University teacher Özlem Özer-Kemppainen.

Working life cooperation:

The restoration project is done in cooperation with the owner of the real estate.

Other information:

-

450545A: Illustrator Basics, 1 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

1

Language of instruction:

Finnish

Timing:

workshop-type weekend course, the course is organized at most once per academic year.

Learning outcomes:

The student is familiar with the basics of the vector graphics tools and has an overall understanding of the software. The student is able to produce publishable layouts that combine graphic and text material from different sources.

Contents:

Vector drawing, importing graphics, layout and PDF-export.

Mode of delivery:

workshop

Learning activities and teaching methods:

Contact teaching 16 h, independent exercises 11 h.

Target group:

-

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Software help files

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the Oulu School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

N.N.

Working life cooperation:

Students will learn to use the advanced skills of Adobe Illustrator software and apply those skills in hands-on work.

Other information:

Basics of Illustrator for page layout and vector graphics.

The course is intended for registered students of the Oulu School of Architecture only.

450547A: Indesign Basics, 1 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Asko Leinonen

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay450547A Indesign Basics (OPEN UNI) 1.0 op

ECTS Credits:

1

Language of instruction:

Finnish

Timing:

workshop-type weekend course, the course is organized at most once per academic year.

Learning outcomes:

Students master the basic page layout features and understand the possibilities of the software. Students are able to produce pages ready for release combining visual and textual material from various sources.

Contents:

Placing formatted text and pictures, page layout and PDF publishing.

Mode of delivery:

workshop

Learning activities and teaching methods:

Contact teaching 16 h, independent exercises 11 h.

Target group:

-

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Software help files

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the Oulu School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

n.n.

Working life cooperation:

Students will learn to use the basic skills of Adobe InDesign publishing software and apply those skills in hands-on work. Students can use style settings in InDesign to make well controlled text and graphic layouts.

Other information:

Basic features of page layout in Indesign.

The course is intended for registered students of the Oulu School of Architecture only.

450541A: Photoshop, Advanced Photomanipulation, 2 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Asko Leinonen

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay450541A Photoshop, Advanced Photomanipulation (OPEN UNI) 2.0 op

ECTS Credits:

2

Language of instruction:

Finnish

Timing:

workshop-type weekend courses, the course is organized once per academic year.

Learning outcomes:

Students are able to complete image renderings from 3d modelling software and to supplement them by combining elements from photos for a photorealistic and expressive end-result.

Contents:

Color correction, perspective correction.

Mode of delivery:

2 weekend workshop including lectures and exercises.

Learning activities and teaching methods:

Contact teaching 32 h, independent exercises 22 h.

Target group:

-

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Software help files and handouts.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the Oulu School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

N.N.

Working life cooperation:

Students will learn to use the advanced skills of Adobe Photoshop software and apply those skills in hands-on work such as finishing conceptual drawing renderings.

Other information:

Adding a finishing touch in Photoshop to images produced with other rendering software. The course is intended for the students of the Oulu School of Architecture only

450516P: Portfolio, 2 op

Voimassaolo: 01.08.2013 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Asko Leinonen

Opintokohteen kielet: Finnish

ECTS Credits:

2

Language of instruction:

Finnish

Timing:

1st half of spring semester

Learning outcomes:

The student can make the sample portfolio based on his or her basic portfolio. The sample portfolio is a document intended to be published.

Contents:

The portfolio is an instrument for improving the student's own activity. With the help of the portfolio the student records the progression of his or her learning. During the course the student receives tools to design and create a portfolio of sample projects and artworks. The focus of teaching is to take advantage of graphic and visualization resources, using the desktop publishing.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

The course is based on lectures (20 h), an exercise (25) and contact teaching (10 h). The student makes the exercise work, presenting his or her all-around activities.

Target group:

bachelor level students

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

The bibliography will be stated during lessons.

Assessment methods and criteria:

The aim of the lectures is to prepare the students to make an exercise, in which a sample folder of student's artworks is presented. The assessment is based on above-mentioned exercise, where basic mastery of taught matters and visual skills are focused.

Grading:

1-5

Person responsible:

Architect Asko Leinonen

Working life cooperation:

The students compile a design portfolio of their own project work. The purpose is to complete the portfolio with the student's later projects and use it to present one's skills when applying for a job.

Other information:

-

450505A: Practical Training, 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Practical training

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Petri Aarnio

Opintokohteen kielet: Finnish

ECTS Credits:

5 ECTS

Language of instruction:

Finnish

Timing:

The best timing for practical training in architect's office is the summers during bachelor level.

Learning outcomes:

After completing the practical training the student is able to describe one possible occupation after his / her graduation. The student can recognize and solve problems of the working environment. The student is able to implement theoretical knowledge in practice. The student recognizes the architect's professional tasks at his / her work place during the practical training.

Contents:

The aim of practical training in architect's office is to initiate the student into architects' work and tasks. It is essential for students to get to know the work field of an architect in order to begin his / her own professional career after graduation most efficiently. Recommended places of work for practical training are private or public design and planning offices lead by qualified architects.

Mode of delivery:

The student finds the placement for practical training by her- / himself.

Learning activities and teaching methods:

The student writes a report and presents a testimonial of the training. In a seminar organized after the training students describe and compare their experiences of training. The practical training is supervised by the laboratory of architectural construction.

Target group:

Bachelor level students.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

The laboratory for architectural construction provides the instructions for practical training

Assessment methods and criteria:

Practical training in architect's office, writing a training report, participation in the seminar

Grading:

pass / fail

Person responsible:

University teacher Petri Aarnio

Working life cooperation:

The student is employed by an architect's office and carry out the tasks given to him / her as an employee.

450503A: Practical Training / Construction Site, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Practical training

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Petri Aarnio

Opintokohteen kielet: Finnish

ECTS Credits:

5

Language of instruction:

Finnish

Timing:

Flexible, the best timing for construction site practical training is the summer after the 1st or 2nd year of bachelor level.

Learning outcomes:

After the construction site practical training the student can describe one possible building site of a building designed by him / her in the future and its working environment looked from the point of view of his / her study. The student can name problems in the working environment and can make improvement proposals to them. The student finds point of contacts between working life and the studies.

Contents:

The objective of the practical training is to acquaint the student with the working life on the building site. The practical training supports and promotes theoretical studying. Furthermore, the practical training gives the general idea about the technical and economic organizing, administration and management of the building site. The practical training is usually performed in the ordinary worker's position.

Mode of delivery:

The student finds the placement for construction site practical training by her- / himself. The construction site practical training can be replaced with weekly visits on the site during half a year.

Learning activities and teaching methods:

The student writes an illustrated report, which describes the events of the site and present a testimonial of the training. In a seminar organized after the practical training students describe and compare their experiences of training.

Target group:

1st and 2nd year bachelor students

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

The laboratory for architectural construction provides the instructions for construction site practical training.

Assessment methods and criteria:

Training at the construction site, writing the training report, participation in the seminar.

Grading:

pass / fail

Person responsible:

university teacher Petri Aarnio

Working life cooperation:

The student is employed by a construction company and carry out the tasks given to him / her as an employee or explore the construction site under the guidance of the construction company staff.

Other information:

-

450550P: R1 Revit basics, 2 op

Voimassaolo: 01.08.2017 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2

Language of instruction:

Finnish

Timing:

autumn semester

Learning outcomes:

Students are able to produce presentation drawings based on the information model using basic tools and know the essential to produce building permit drawings.

Contents:

Project management, detailing tools, section, facade and perspective views.

Mode of delivery:

Lectures and course work.

Target group:

2nd year bachelor students

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Software help files and handouts.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the Department of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

n.n.

Working life cooperation:

Students will learn to use the basics of Revit software and apply those skills in hands-on work.

Other information:

Introduction to conventional Building Information Modelling in Revit Architecture Environment. The course is intended for registered students of the Oulu School of Architecture only.

450557A: R2 Revit advanced, 1 op

Voimassaolo: 01.08.2018 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

1

Language of instruction:

Finnish

Timing:

varying

Learning outcomes:

Students are able to produce complex building components and detail models into the Building Information Model and schedules from the information gathered.

Contents:

Self-made objects, complex forms, schedules and legends.

Mode of delivery:

Lectures and course work.

Learning activities and teaching methods:

Contact teaching 16 h, independent exercises 11 h.

Target group:

-

Prerequisites and co-requisites:

RI Revit basics course

Recommended optional programme components:

-

Recommended or required reading:

Software help files and handouts.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the Oulu School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

NN

Working life cooperation:

Students will learn to use the advanced skills of Revit software and apply those skills in hands-on work.

Other information:

Introduction to effective Building Information Modelling in Revit Architecture Environment. The course is intended for registered students of the Oulu School of Architecture only.

456507S: Renovation of Apartment Buildings, 10 op**Voimassaolo:** 01.08.2015 -**Opiskelumuoto:** Advanced Studies**Laji:** Course**Vastuuyksikkö:** Oulu School of Architecture**Arvostelu:** 1 - 5, pass, fail**Opettajat:** Anu-Sisko Soikkeli**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

450517A: Revit Architecture Advanced, 2 op**Voimassaolo:** 01.08.2015 -**Opiskelumuoto:** Intermediate Studies**Laji:** Course**Vastuuyksikkö:** Oulu School of Architecture**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**ECTS Credits:**

2

Language of instruction:

Finnish

Timing:

varying

Learning outcomes:

Students are able to produce complex building components and detail models into the Building Information Model and schedules from the information gathered

Contents:

Self-made objects, complex forms, schedules and legends.

Mode of delivery:

Lectures and course work.

Prerequisites and co-requisites:

450550P RI Revit basics

Recommended or required reading:

Software help files and handouts.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the Oulu School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

N.N.

Working life cooperation:

Students will learn to use the advanced skills of Revit software and apply those skills in hands-on work.

Other information:

Introduction to effective Building Information Modelling in Revit Architecture Environment.

The course is intended for registered students of the Oulu School of Architecture only.

450549A: Rhinoceros and Grasshopper basics, 2 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 ECTS

Language of instruction:

Finnish

Timing:

flexible

Learning outcomes:

The student is able to apply the basic toolset of the software for modelling precise freeform 3D-models and line drawings. In addition the student can transfer model data between other software.

Contents:

Surfaces, solids, annotation, layout.

Mode of delivery:

Lectures and course work.

Recommended optional programme components:

The courses is an optional study unit

Recommended or required reading:

Software help files and handouts.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the Oulu School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

NN

Working life cooperation:

-

Other information:

Introduction to simple modelling in Rhinoceros. The course is intended for the registered students of the Oulu School of Architecture only.

453531P: Structural Technology, basic course, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Mikko Malaska

Opintokohteen kielet: Finnish

ECTS Credits:

3 ECTS

Language of instruction:

Finnish

Timing:

Spring term 1-2

Learning outcomes:

Upon completion of the course the student identifies and is able to describe frametypes and structural systems. The student also understands the balance of the object. Student is able to tell the origin of soil and soil types and knows their use as structural material and as object of soil construction and knows the principles of founding.

Contents:

Lectures comprise elements of three subjects: the frame systems of the buildings, statics and soil constructions in Finnish circumstances. The design studio comprises of small structural design projects.

Mode of delivery:

Contact teaching and independent studying.

Learning activities and teaching methods:

16 hours of lectures, 14 hours of tutored exercises +51 hours of independent working.

Target group:

1st year bachelor level students.

Prerequisites and co-requisites:

-

Recommended optional programme components:

The course is recommended to be taken before the Basics of Architectural Construction, studio course

Recommended or required reading:

Study compendium. Course literature will be announced separately.

Assessment methods and criteria:

Design project and exam. Evaluation is based on exam.

Grading:

1-5

Person responsible:

NN

Working life cooperation:

-

Other information:

-

454522S: Urban Space Design, 10 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Tarja Outila

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

455521S: Urban Space Detailing, 10 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Aulikki Herneoja

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

455513A: Visual Arts III, 4 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opettajat: Matti Sanaksenaho

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay455513A Visual Arts III (OPEN UNI) 4.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

4

Language of instruction:

Finnish

Timing:

Autumn semester

Learning outcomes:

After completing the course the student has learned to select methods of visual presentation and can implement these skills in the exercise work.

Contents:

Introduction to various illustration techniques: graphics, painting, serigraphy or modelling.

Mode of delivery:

Face-to-face teaching and individual work

Learning activities and teaching methods:

guided learning and individual work

Target group:

bachelor level students

Prerequisites and co-requisites:

-

Recommended optional programme components:

The course is optional study unit within the bachelor's degree studies.

Recommended or required reading:

List of readings will be given during the course.

Assessment methods and criteria:

The course is evaluated on the outcome of the exercise work

Grading:

1-5

Person responsible:

Professor Matti Sanaksenaho

Working life cooperation:

-

Other information:

The course is realized in cooperation with the open university.

455514A: Visual Arts IV / Architectural Photography, 4 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

4

Language of instruction:

Finnish

Timing:

Second half of spring semester

Learning outcomes:

To initiate the students into the basics of photography and digital raw working methods. After completing the course the student is able to use photography equipment in order to produce digital material for illustrating architecture.

Contents:

The course includes information of digital cameras, lenses, focusing, depth of field, aperture, exposure, shutter speed and lights. Also digital raw pictures will be retouched with Adobe Bridge and Photoshop applications.

Mode of delivery:

Lectures, contact teaching and independent studying.

Learning activities and teaching methods:

Lectures 20 h and contact teaching and independent studying 20 h. The exercise work (65 h) is made independently or in a small group.

Target group:

The course is an optional study unit in the bachelor's study programme.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Supplemental reading list will be supplied during the course.

Assessment methods and criteria:

Based on exercises

Grading:

1-5

Person responsible:

Architect Asko Leinonen

Working life cooperation:

-

Other information:

-

450554P: art Artlantis basics, 1 op

Voimassaolo: 01.08.2017 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu School of Architecture

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

1

Language of instruction:

Finnish

Timing:

varying

Learning outcomes:

The student can import a 3D-model and combine it with other models. On the basis of this model, the student can set the material, lighting and camera properties for a satisfactory end result in the rendering.

Contents:

Basics of the software.

Mode of delivery:

Lectures and course work.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Software help files and handouts.

Assessment methods and criteria:

Based on a project work (the presentation material of a design course at the School of Architecture or an equivalent work).

Grading:

1-5

Person responsible:

n.n.

Working life cooperation:

Students will learn to use the basics of Artlantis software and apply those skills in hands-on work.

Other information:

Use of Artlantis. The course is intended for registered students of the Oulu School of Architecture only.