

Opasraportti

Open University - Technology (2015 - 2016)

Tutkintorakenteisiin kuulumattomat opintokokonaisuudet ja -jaksot

ay811379A: Basics of Human Computer Interaction (OPEN UNI), 5 op
 ay521141P: Elementary Programming (OPEN UNI), 5 op
 ay451513S: History of Interior Design and Historical interiors (OPEN UNI), 5 op
 ay811177P: Humans as Users and Developers of Information Technology (OPEN UNI), 5 op
 ayA440190: Industrial Engineering and Management (IEM) Minor Subject Studies (OPEN UNI), 25 op

Compulsory

ay555225P: Basics of industrial engineering and management (OPEN UNI), 5 op
 ay555285A: Project management (OPEN UNI), 5 op
 ay555286A: Process and quality management (OPEN UNI), 5 op
 ay555264P: Managing well-being and quality of working life (OPEN UNI), 5 op
 ay555242A: Product development (OPEN UNI), 5 op
 ayA325901: Information Processing Science, basic studies (OPEN UNI), 25 op
 ay811168P: Information Security (OPEN UNI), 5 op
 ay455518A: Interior Design (OPEN UNI), 5 op
 ay811167P: Introduction to Information Systems Design (OPEN UNI), 5 op
 ay811174P: Introduction to Software Business (OPEN UNI), 5 op
 ay810136P: Introduction to information processing sciences (OPEN UNI), 5 op
 ay451523S: Traditional Japanese Architecture and Garden Art (OPEN UNI), 5 op
 ay455513A: Visual Arts III (OPEN UNI), 4 op

Opintojaksojen kuvaukset

Tutkintorakenteisiin kuulumattomien opintokokonaisuuksien ja -jaksojen kuvaukset

ay811379A: Basics of Human Computer Interaction (OPEN UNI), 5 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opinto-kohteen kielet: Finnish

Leikkaavuudet:

811379A Basics of Human Computer Interaction 5.0 op

ECTS Credits:

5 ECTS credits/134 hours of work

Language of instruction:

Finnish

Timing:

Timing: 2nd year, spring semester, period 4

Learning outcomes:

After completing the course, a student is able to define the basic concepts of user interface design, introduce the basic design process and its steps, the most common design and evaluation methods and tasks, and apply them in the context of graphic user interface design.

Contents:

The terminology and fundamental concepts of the area, user interface, usability, interaction model and context, elements and navigation related to common windowed systems, basics of interaction design process, common usability and design rules, evaluation techniques, universal design and user support.

Mode of delivery:

Face-to-face teaching/blended teaching

Learning activities and teaching methods:

Lectures 20h, assignments and tutoring or one larger assignment 67h, exam preparation and an exam 47h.

Target group:**Prerequisites and co-requisites:**

Course "Humans as Users and Developers of Information Technology" (811171P) or similar knowledge.

Recommended optional programme components:**Recommended or required reading:**

Dix et al. (2004, 3rd edition or later edition) Human-Computer Interaction or related course books and study materials.

Assessment methods and criteria:

Assessment methods: assignment 50%, exam 50%

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

Grading:

1-5

Person responsible:

Anna-Liisa Syrjänen

Working life cooperation:

No

ay521141P: Elementary Programming (OPEN UNI), 5 op

Voimassaolo: 01.01.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opintokohteen kielet: Finnish

Leikkaavuudet:

521141P Elementary Programming 5.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

5

Language of instruction:

Finnish, the course can be completed in English by answering the lecture questions and doing the programming exercises and the final exercise.

Timing:

Fall, period 1.

Learning outcomes:

Upon completing the required coursework, the student is able to explain the basic programming concepts and structures and to solve problems using these concepts and structures. Moreover, the student is able to implement small programs independently.

Contents:

Basic concepts of programming, basic structures of programming languages, solving problems by programming.

Mode of delivery:

Web-based teaching + face-to-face teaching

Learning activities and teaching methods:

Learning assignments in a web environment. Contact teaching: 20h of exercise groups.

Target group:

1st year students of computer science and engineering and electrical engineering and other Students of the University of Oulu.

Prerequisites and co-requisites:

None.

Recommended optional programme components:

The course provides a basis for subsequent programming courses.

Recommended or required reading:

Will be announced at the beginning of the course.

Assessment methods and criteria:

The course is completed by passing all learning assignments, programming exercises and a final exercise project.

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

Grading:

pass/fail.

Person responsible:

Mika Rautiainen

Working life cooperation:

-

ay451513S: History of Interior Design and Historical interiors (OPEN UNI), 5 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opintokohteen kielet: Finnish

Leikkaavuudet:

451513S History of Interior Design / Historical interiors 5.0 op

Language of instruction:

Finnish

Learning outcomes:

To provide a general impression of the history of European interior decoration and the development of Finnish interior decoration in relation to it.

Learning outcome : After completing the course the student recognizes and is able to describe the periods of the European history of interior design in general and to compare the special features of the development of Finnish interior design in relation to the European.

Contents:

The lecture topics cover interior decoration from the Classical period to modern times. Attention is paid to the connections between architecture, the general way of life and interior decoration.

Assessment methods and criteria:

A written examination after the lectures, essay / restoration or reconstruction plan.

ay811177P: Humans as Users and Developers of Information Technology (OPEN UNI), 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opintokohteen kielet: Finnish

Leikkaavuudet:

811177P Humans as Users and Developers of Information Technology 5.0 op

ECTS Credits:

5 ECTS credits/130 hours of work

Language of instruction:

finnish

Timing:

1st year, autumn semester, period 2

Learning outcomes:

After completing the course, students will be able to examine humans as both users and developers of information technology. The student learns core concepts of the phenomenon, and understands their meaning in relation to practice. Students are also familiar with the background of usability research and some of its scientific theories. Students are able to observe and specify a variety of use situations and user experiences of information technologies. Students also understand the challenges of the information technology developers when targeting to create pleasant use experiences for the users of these technologies. After completing the course, students also realize they have started their own journey to become an expert in information technology development.

Contents:

The key themes and concepts of the course are the diversity of information technology, humans as users and developers of information technology, usability, use and user experience, user-centred design.

Mode of delivery:

Face-to-face teaching and self-studying supported with web-based learning environment.

Learning activities and teaching methods:

Lectures (24h), home assignments and written task based on required reading (about 106h).

Recommended or required reading:

Antti Oulasvirta (ed.): "Ihmisen ja tietokoneen vuorovaikutus" (2011), parts I and II. In addition, the material during lectures and other supplementary material.

Assessment methods and criteria:

Course assessment is mainly based on the pre-assignment, home assignments, and individual essay based on the required reading. In addition, one may improve one's own grade by optional advanced assignment. Assessment criteria will be available in the web-based learning environment.

Grading:

1-5

Person responsible:

Tonja Molin-Juustila

Working life cooperation:

No

ayA440190: Industrial Engineering and Management (IEM) Minor Subject Studies (OPEN UNI), 25 op

Voimassaolo: 01.01.2014 -

Opiskelumuoto: Intermediate Studies

Laji: Study module

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opintokohteen kielet: Finnish

Leikkaavuudet:

A440190 Industrial Engineering and Management (IEM) Minor Subject Studies 25.0 op

Compulsory

ay555225P: Basics of industrial engineering and management (OPEN UNI), 5 op

Voimassaolo: 01.01.2014 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opettajat: Jukka Majava

Opintokohteen kielet: Finnish

Leikkaavuudet:

555225P Basics of industrial engineering and management 5.0 op

ay555285A: Project management (OPEN UNI), 5 op

Voimassaolo: 01.01.2014 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opettajat: Kirsi Aaltonen

Opintokohteen kielet: Finnish

Leikkaavuudet:

555288A Project Management 5.0 op

555285A Project management 5.0 op

ay555286A: Process and quality management (OPEN UNI), 5 op

Voimassaolo: 01.01.2014 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opettajat: Osmo Kauppila

Opintokohteen kielet: Finnish

Leikkaavuudet:

555286A Process and quality management 5.0 op

ay555264P: Managing well-being and quality of working life (OPEN UNI), 5 op

Voimassaolo: 01.01.2014 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opintokohteen kielet: Finnish

Leikkaavuudet:

555264P Managing well-being and quality of working life 5.0 op

ay555242A: Product development (OPEN UNI), 5 op

Voimassaolo: 01.01.2014 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opettajat: Kai Hänninen

Opintokohteen kielet: Finnish

Leikkaavuudet:

555242A Product development 5.0 op

ayA325901: Information Processing Science, basic studies (OPEN UNI), 25 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Basic Studies

Laji: Study module

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opintokohteen kielet: Finnish

Leikkaavuudet:

A325901 Information Processing Science, basic studies 27.0 op

Ei opintojaksokuvauksia.

ay811168P: Information Security (OPEN UNI), 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opintokohteen kielet: Finnish

Leikkaavuudet:

811168P Information Security 5.0 op

ECTS Credits:

5 ECTS credits/134 hours of work

Language of instruction:

Finnish

Timing:

1st year, spring semester, period 4

Learning outcomes:

After completing the course, a student remembers the main features of the history of information security and is able to define essential security concepts. She/he recognises the different phases of security systems development, is able to evaluate their contents and can describe the fundamental characteristics of planning for security. The student is capable on a basic level of analysing the main scientific methods of information security (risk management, encryption, authentication, access control, etc.) and can explain the functioning of the most important security algorithms and protocols. She/he is able to solve small-scale problems in encryption and authentication and can use security software tools whose functioning principles he/she understands.

Contents:

1. History and basic structures;
2. The need and concepts of information security;
3. Risk management;
4. Planning of security;
5. Cryptography;
6. Access control;
7. Security protocols;
8. Software security;
9. Implementing information security;
10. Information security maintenance.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 32h, exercises 32h, autonomous work about 64h

Target group:**Prerequisites and co-requisites:**

Mastering the material presented in the courses "Discrete Structures" and "Internet and Computer Networks" is of use

Recommended optional programme components:**Recommended or required reading:**

Lecture slides (about 250 slides), text book: M. Whitman and H. Mattord, H., *Principles of Information Security 2nd ed.*, Thomson Course Technology, Boston, 2005. ISBN 0-619-21625-5

Assessment methods and criteria:

lectures by final exam

Grading:

1-5

Person responsible:

Juha Kortelainen

Working life cooperation:

No

ay455518A: Interior Design (OPEN UNI), 5 op**Voimassaolo:** 01.08.2012 -**Opiskelumuoto:** Intermediate Studies**Laji:** Course**Vastuuyksikkö:** Open University, Oulu**Arvostelu:** 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opintokohteen kielet: Finnish

Leikkaavuudet:

455518A Interior Design I 5.0 op

Language of instruction:

Finnish/English

Learning outcomes:

The aim of the course is to provide students with basic skills of interior design and to guide the students to practical design work.

Learning outcome: After completing the course the student can produce preliminary designs for an interior, utilizing various sectors of interior design in a creative manner.

Contents:

Lectures deal with basic concepts of interior design and the connection between architecture and interior design. The focus is on materials, colours and lighting of the space, design of fixed furniture and textiles. The exercise work is a sketch level design of an interior. Visits to designed interiors are included in the course.

Learning activities and teaching methods:

The course is intended for 4th year students and is part of the Architectural Design orientation module. The course is taught both in English and Finnish.

Assessment methods and criteria:

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

ay811167P: Introduction to Information Systems Design (OPEN UNI), 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opintokohteen kielet: Finnish

Leikkaavuudet:

811167P Introduction to Information Systems Design 5.0 op

ECTS Credits:

5 ECTS credits/136 hours of work

Language of instruction:

finnish

Timing:

1st year of Bachelor studies, period 4

Learning outcomes:

After completing the course, the student will be able to:

- Explain the main areas of the information system design on technical level, main design process models for the information system design, basics of the requirement gathering, basics of the information system initialization, and basics of how to evaluate information systems.;
- Produce use-case descriptions, use-case diagrams and other types of diagrams and descriptions needed to model the operational environment of the information system

Contents:

Basic concepts of Information Systems, Information System Design, Information System Modeling, Operational Environment Modeling, Process models for Information System Development, Evaluation of Information Systems

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures (9x3h), Exercises (7x3h), Assignment (85h), Exam (3h).

Recommended or required reading:

Structure and contents of the course are based on:

- Satzinger, Jackson ja Burd (2007), Systems Analysis and Design in a Changing World
- Hoffer, George and Valacich (2008), Modern systems Analysis and Design, 5. revision

Assessment methods and criteria:

Exam and mandatory assignment

Grading:

1-5

Person responsible:

Mikko Rajanen

ay811174P: Introduction to Software Business (OPEN UNI), 5 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opintokohteen kielet: Finnish

Leikkaavuudet:

811174P Introduction to Software Business 5.0 op

ECTS Credits:

5 ECTS credits/134 hours of work

Language of instruction:

Finnish

Timing:

1st year, spring semester, period 4

Learning outcomes:

After completing the course, a student can:

- Explain how the industry is structured;
- Describe the software industry's business logic as typically used in business models and the reasoning behind their use;
- Describe the important areas of the software business.

Contents:

More details on the course website

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

Lectures 30h, exercises 20h, independent work 63.5h and examination 20h

Target group:**Recommended optional programme components:**

-

Recommended or required reading:**Study materials:** Refer to course website**Assessment methods and criteria:**

Examination

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

Fail, 1 - 5

Person responsible:

Marianne Kinnula

ay810136P: Introduction to information processing sciences (OPEN UNI), 5 op**Voimassaolo:** 01.08.2012 -**Opiskelumuoto:** Basic Studies**Laji:** Course**Vastuuyksikkö:** Open University, Oulu**Arvostelu:** 1 - 5, pass, fail**Opetus suunnattu:** Open University, Oulu**Opintokohteen kielet:** Finnish**Leikkaavuudet:**

810136P Introduction to Information Processing Sciences 5.0 op

ECTS Credits:

ECTS credits: 5 ECTS credits/134 hours of work

Language of instruction:

Finnish

Timing:**Timing:** 1st year of Bachelor studies, autumn semester, periods 1–2**Learning outcomes:**

Learning outcomes: Students are able to complete information searches belonging to subject areas related to the course, analyse the information they have found and write short reports and essays.

Contents:

Contents: The course consists of lectures of various aspects of computer science and current research. Practical working life is discussed from the information science point of view. The course also introduces scientific work and its sub-processes through listening, discussing, reading, critical and creative thinking, material search, structuring and writing presentations.

Mode of delivery:

Model of delivery: Blended teaching

Learning activities and teaching methods:

Learning activities and teaching methods: Lectures (28 h), exercise work (35 h), and self-study (71 h). The course uses a web-based learning environment for sharing information and exercises in support of reading.

Target group:**Recommended optional programme components:****Recommended or required reading:**

Recommended or required reading: Study material will be announced during the course

Assessment methods and criteria:

Assessment methods and criteria: The course assignments are graded. Extra points can be obtained by showing activity during the lectures.

Read more about [assessment criteria](#) at the University of Oulu webpage.**Grading:****Arvostelu:** Hylätty, 1 - 5**Person responsible:**

Juhani Warsta

ay451523S: Traditional Japanese Architecture and Garden Art (OPEN UNI), 5 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opintokohteen kielet: Finnish

Leikkaavuudet:

451523S Traditional Japanese Architecture and Garden Art 5.0 op

Language of instruction:

Finnish

Timing:

The course is arranged according to the program of the Open University

Learning outcomes:

The aim of the course is to introduce the basics of Japanese architecture and garden art as well as the literature of the field.

Learning outcomes: After completing the course the student is able to describe the historical eras of Japanese architecture. He / she can evaluate the tradition of Japanese architecture and garden art as a whole and recognize the most essential examples of existing building tradition, as well as the traditional values of Japanese culture and their reflections in the built environment.

Contents:

Lectures on Japanese traditional architecture and garden art. The content of the course varies yearly.

Mode of delivery:

Lectures

Learning activities and teaching methods:

Lectures 24h

Target group:

Elective course, arranged as an intensive course

Prerequisites and co-requisites:

The course is organized by the Open University

Recommended or required reading:

Separate list of literature will be delivered during the course

Assessment methods and criteria:

Essay

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

ay455513A: Visual Arts III (OPEN UNI), 4 op

Voimassaolo: 01.08.2012 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Open University, Oulu

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: Open University, Oulu

Opintokohteen kielet: Finnish

Leikkaavuudet:

455513A Visual Arts III 4.0 op

Voidaan suorittaa useasti: Kyllä

Assessment methods and criteria:

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

