Interaction Design and User Experience

Single subject and programme course

9 credits

Interaktionsdesign och användarupplevelse

729G85

Valid from: 2020 Autumn semester

Determined by

Course and Programme Syllabus Board
at the Faculty of Arts and Sciences

Date determined

2020-02-03

Replaced by

729g90

Main field of study

Cognitive Science

Course level

First cycle

Advancement level

G2F

Course offered for

- Master Programme in Cognitive Science
- Bachelor´s Programme in Cognitive Science
- Bachelor programme in Information Systems Analysis
- Master Programme in IT and Management

Entry requirements

General entry requirements for undergraduate studies
and
English corresponding to the level of English in Swedish upper secondary
education (Engelska 6)
and
Social Studies corresponding to the level of Social Studies in Swedish upper
secondary education (Samhällskunskap 1)
and
Mathematics corresponding to the level of Mathematics in Swedish upper
secondary education (Matematik 2)
and
90 ECTS credits from semester 1 to 4 of the Bachelor's program in Cognitive
Science, including Cognitive Science Introductory Course 9 ECTS credits and at
least one of the courses Information Technology and Programming 12 ECTS
credits, Research Methodology and Statistics 9 ECTS credits, or Qualitative
Research Methods 6 ECTS credits, or equivalent
or
95 ECTS credits from semester 1 to 4 of the Bachelor's program in information
systems
   (Exemption from Swedish)

Intended learning outcomes

The student shall be able to:

- Conduct user research.
- Generate ideas and sketch concept proposals in interaction design.
- Evaluate proposals and argue for a proposal based on results from user research in communication with clients.
- Specify requirements for, and sketch, develop and present prototypes of interactive products and services for a client.
- Use design principles and guidelines in sketching and prototyping user interfaces.
- Conduct and present to a client the evaluation of prototypes of interactive products and services with regard to basic measurement and identification of problems in the user experience.
- Make judgments in user experience and interaction design with regard to social and ethical aspects, such as gender and sustainability.
- Identify one's own need for further knowledge and expertise in user experience and interaction design.

Course content

The course deals with professional process knowledge in interaction design and user experience. It is especially focused on setting up and implementing a human-centered design process for interactive products and services from A to Z, including sketching out ideas and prototyping solutions. The course is based on design challenges from a client.

Skills: Implement an interaction design process with customer and user perspective for a client. Design well-functioning interactive products and services. Study and evaluate user experience.

Topics: Basic concepts in human-computer interaction. Design principles as well user interface guidelines. Prototyping of interactive products and services. Design Methods. Different types of user interfaces. Methods for evaluating user experience and usability.

Technology: Prototyping tools (LoFi and HiFi) for the development of interactive products and services. Interaction technology.

Teaching and working methods

Lectures, lessons, reading, design work in collaboration with various user groups and clients, oral presentations and written assignments. The student is expected to study independently, individually or in groups.

Examination

The course is examined by:

- practical design work in group, with compulsory attendance ot presentations, grading scale: UG
- individual assignment with multiple parts, grading scale: EC

Final grades for the course are based on the individual assignment, assuming that the practical design work have been passed.

Detailed information can be found in the study guidelines.

If special circumstances prevail, and if it is possible with consideration of the nature of the compulsory component, the examiner may decide to replace the compulsory component with another equivalent component.

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it. If the coordinator has instead recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

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Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

Grades

ECTS, EC

Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

The course is carried out in such a way that both men´s and women´s experience and knowledge is made visible and developed.

Department

Institutionen för datavetenskap