Linnæus University

Dnr: 2022/2725-3.1.2.2

Course syllabus

Faculty of Technology

Department of Informatics

2IK70E Självständigt arbete i Informatik, 15 högskolepoäng
2IK70E Thesis work in Informatics, 15 credits

Main field of study
Informatics

Subject Group
Informatics/Computer and Systems Sciences

Level of classification
First Level

Progression
G2E

Date of Ratification
Approved by Faculty of Technology 2022-06-27
The course syllabus is valid from spring semester 2023

Prerequisites
105 credits, of which at least 75 credits are in the field of informatics, where 15 credits are courses at the G2F level.

Objectives

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

Knowledge and understanding

- demonstrate both broad knowledge of the main field of study (informatics) in general and highly specialised knowledge in certain areas of the chosen field of study
- demonstrate in-depth theoretical as well as practical knowledge of methodology in the main field of study.

Competence and skills

- formulate relevant research questions, taking societal and ethical aspects into account
- demonstrate an abiltiy to plan and conduct a research and development project within a given framework and with given resources, using adequate methods

- demonstrate an ability to critically apply and intergrate knowledge acquired in the course
- demonstrate an ability to clearly present, explain, and discuss both their own and others' conclusions, including the arguments that these conclusions are based on, in speech and in writing

Judgement and approach

- demonstrate an ability to make assessments that take relevant scientific, societal, and ethical aspects of research and development work into account
- demonstrate an ability to identify need of further knowledge
- take a scientific approach and use professional writing and presentation techniques.

Content

The aim of the course is for the student to practise their ability to define, plan, implement, and present an independent project in the main field of study (informatics). The independent project should use and synthesise knowledge acquired in the course, and demonstrate the student's ability to work independently as a systems scientist, an interaction designer, or a digital business developer.

The course includes the following components:

1. Pilot study and planning
2. Implementation

- an independent project
- active participation in supervision and follow-up
- a written report

3. Oral presentation and defence
4. Peer-review

- a written peer-review
- an oral peer-review.

The pilot study and planning stage includes the production of a research plan. The independent project should have a clear problem owner, who may be a business, an organisation/authority, or a current research problem.

In the implementation stage, an independent project is conducted. The project is regularly followed up and documented in a report adhering to academic norms. The student presents and defends their project at a review seminar. Each student will also review another student's independent project.

Type of Instruction

The course begins with an introductory lecture. The remainder of the course comprises an independent project, including planning, implementation, follow-up, and presentation, as well as peer-review of another student's independent project. Throughout the project, the student should regularly follow up on current state and progress of the project with their supervisor. The student is also responsible for providing status updates throughout the course. Teaching is delivered in the form of independent work in pairs. The student is expected to account for their own individual efforts. If the student fails to complete their work by the time of the regular

examination, they always have the right to have their project assessed at a subsequent examination seminar. A student who has re-registered on the course will not receive additional supervision.

Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.

The grade A is the highest grade and the grade E is the lowest grade for passing the course. The grade F means that the student's performance is assessed as failed.

The examination of the course is divided into the following examination elements:

- Independent project, 15 credits (A–F)

Resit examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University. If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to adapt the exam or to let the student conduct the exam in an alternative way.

The assessment is based on the academic report, the oral presentation and defence, and the peer-review.

The independent project must be concluded within two years from the course start date. If the work is not completed within two years, the examiner must approve the research plan over again. If this requires re-registration, the student is not entitled to additional supervision.

Course Evaluation

During or shortly after the course, a course evaluation should be conducted. The result and analysis of the course evaluation should be promptly communicated to the students who have taken the course. Students who are taking the course when it is offered the next time should be informed of the result at the course introduction. The course evaluation is anonymous.

Other

The student must have access to a computer and the internet to be able to access the course material, which is provided on the online learning platform.

Required Reading and Additional Study Material

Relevant course reading is chosen in consultation with the supervisor and the course coordinator.