Linnæus University

Jnr: 2019/2006-3.1.2.2

Course syllabus

Faculty of Technology
Department of Computer Science and Media Technology

2DV609 Projekt i Programvaruteknik, 7,5 högskolepoäng
Project Course in Software Engineering, 7.5 credits

Main field of study
Computer Science

Subject Group
Informatics/Computer and Systems Sciences

Level of classification
First Level

Progression
G2F

Date of Ratification
Approved by Faculty of Technology 2019-06-10
The course syllabus is valid from spring semester 2020

Prerequisites
60 credits within Computer Science including 2DV608 Software Design, 7.5 credits or equivalent

Objectives

Upon completion of the course, students should be able to:

- Describe and execute a Software Engineering Development Process
- Describe and apply the specific Software Engineering Development Activities
- Describe and produce Software Engineering Development Artifacts

Content

- An introduction to Software Engineering Development Processes
- An introduction to Software Engineering Development Project Management activities (e.g., identification of need, planning, designing, implementation, testing and documenting), and related artifacts (e.g., use cases, class diagrams, and other UML models, requirements and design documents)
- Problem-solving in teams with applications of Software Engineering Development Activities

Type of Instruction

The instruction consists of lectures and supervision meetings. The lectures present the project as well as the methods, and resources that the students are expected to use. The students will have regular supervision meetings with a teacher during the project.

All projects will be presented at a seminar at the end of the course.

Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.
The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail (i.e., received the grade F).

Assessment of student performance is made through planning document, project work including deliverables, peer-evaluation, and the final presentation. Students who do not pass the regular examination will be offered retrials close to the regular examination

To pass the course, grade E or higher is required for all parts. The final grade is based on the students individual performance (i.e., peer-evaluation) as well as the performance within the project team (i.e., planning, project work including deliverables, and the final presentation).

Repeat 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 give a customised exam or to have the student conduct the exam in an alternative way.

Course Evaluation

During the implementation of the course or in close conjunction with the course, a course evaluation is to be carried out. Results and analysis of the course evaluation are to be promptly presented as feedback to the students who have completed the course. Students who participate during the next course instance receive feedback at the start of the course. The course evaluation is to be carried out anonymously.

Credit Overlap

The course cannot be included in a degree along with the following courses of which the content fully, or partly, corresponds to the content of this course: 2DV603 Software Engineering - Design, 7.5 credits

Other

Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

The course is conducted in such a way that the course participants' experiences and knowledge are made visible and developed. This means, for example, that we have an inclusive approach and strive for no one to feel excluded. This can be expressed in different ways in a course, for example by using the gender-neutral example.

Required Reading and Additional Study Material

Required reading

- Ian Sommerville. Software Engineering (10/E). Pearson, 2015, ISBN: 0133943038. 120 sidor.