DD1367 Software Engineering in Project Form 9.0 credits

Programvarukonstruktion i projektform

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

The official course syllabus is valid from autumn semester 2026 as decided by the Director of First and Second Cycle Education. Decision date: 2026-04-16

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

- Knowledge and skills in programming, 6 credits, equivalent to completed course DD1337/DD1310-DD1319/DD1321/DD1331/DD1333/DD100N/ID1018/ID1022.
- Knowledge in algorithms, data structures and basic software development techniques, 6 credits, equivalent to completed course DD1338/DD1320-DD1328/DD2325/ID1020/ID1021 or completed exam elements KONT and LABD in DD1326.

Intended learning outcomes

After passing the course, the student shall be able to

- describe different development methods for software
- apply appropriate methods for design and implementation in modern software development
- apply established principles of production of the documentation that are necessary for planning, implementation and delivery of software development projects
- apply general guidelines and design principles for rhetoric and oral presentation
- practise the different communication situations with different interested parties that are relevant in a software development project
- work in large software development project groups, where the individuals have different roles and responsibility

in order to be prepared to participate in IT projects, independently of the size of the project and the project group.

Course contents

Theory: systematic principles for design of correct and robust software, life cycle models, the documentation standard PPS-05, project organisation and planning, project risks, software requirements capture and analysis. Presentation of project proposals, assignment of project groups, project work and production of project planning document (PPD) and user requirements document (URD). Guest lectures by experts on software development from the industry. Software development project: planning, requirements capture and analysis for a large software engineering project in groups of at least 8 students, in collaboration with a company or researcher that functions as an external client and provides the project proposal and evaluates the results. Rhetoric and oral presentation.

Examination

- PRO1 - Reports and presentations, 9.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Ethical approach

- All members of a group are responsible for the group's work.

- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.