



DD1393 Software Engineering

10.5 credits

Mjukvarukonstruktion

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

Establishment

Course syllabus for DD1393 valid from Autumn 2015

Grading scale

A, B, C, D, E, FX, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After the course, the student should be able to

- describe different development methods for software,
- apply appropriate methods for design and implementation of modern software systems,
- produce the documents needed in the construction of large software systems,
- work in large development groups where the individuals have different roles,

in order to

- be prepared to participate in large-scale IT projects.

Course contents

Theory: systematic principles of design of correct and robust software, life cycle models, the documentation standard PPS-05, project organisation and planning, project risk, 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 of 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 10 students, in collaboration with a company or researcher that functions as an external client and provides the project proposal and evaluates the results.

Course literature

Ian Sommerville: Software Engineering, Addison Wesley, ninth edition.

Examination

- ÖVN1 - Exercise, 10.5 credits, grading scale: A, B, C, D, E, FX, 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.

Other requirements for final grade

- ÖVN1 - Exercise, 9.0 hp, grading scale: A, B, C, D, E, FX, F

In this course, the code of honour of the school is applied, see: <http://www.kth.se/csc/student/hederskodex>.

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.