



DA150X Degree Project in Computer Science and Engineering, First Cycle 15.0 credits

Examensarbete inom datateknik, grundnivå

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

Establishment

The official course syllabus is valid from spring semester 2025 according to the decision of Director of First and Second Cycle Education: J-2024-2321. Date of decision: 2024-10-21

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

At least 102 higher education credits from year 1-2 and period 1 in year 3 of the compulsory courses within the curriculum of the Master of Science in Engineering in computer science (CDATE) should be completed at latest by the start date for period 2 in order for the student to begin the degree work. Furthermore, courses in each of the following fields must be completed:

- Programming, 7 higher education credits, equivalent to completed course DD1337 or DD1310 together with DD1380.
- Algorithms and Data Structures, 6 credits, equivalent to completed course DD1338.
- Engineering writing, 4.5 credits, equivalent completed course DA1600.
- Sustainable Development, 6 credits, equivalent completed course AL1504 (see below about active participation).
- Experience of project work in a group, for example from DD1367/DD1369.

Active participation in a course offering where the final examination is not yet reported in LADOK is considered equivalent to completion of the course.

Being registered for a course counts as active participation.

The term 'final examination' encompasses both the regular examination and the first re-examination.

Language of instruction

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

Intended learning outcomes

After passing the degree project course, the student should be able to:

- apply skills and knowledge acquired within the computer science and engineering programme on a given problem
- independently identify, formulate and analyse larger problems in computer science
- identify one's own information needs and independently acquire the knowledge and skills that are needed to solve the problem
- justify his or her choice of method based on the question at hand, and expected results
- reflect on, evaluate and critically discuss one's own and others' results
- document and present the work orally and in writing, with requirements for structure, contents, presentation, formal contents, style and writing
- plan the work considering requirements of time and other resources.

Course contents

The students carry out an independent project where they independently should formulate an issue that can be studied with methods from computer science. They should independently choose method and carry out the study.

The results are to be reported both in a written report and at an oral presentation.

Examination

- PRO1 - Project, 15.0 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.