



DD2467 Individual Project in Theoretical Computer Science 7.5 credits

Individuellt projekt i teoretisk datalogi

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

Establishment

The official course syllabus is valid from autumn semester 2025 according to the decision of Director of First and Second Cycle Education: HS-2025-0515. Date of decision: 2025-03-31

Grading scale

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

Education cycle

Second cycle

Main field of study

Computer Science and Engineering

Specific prerequisites

Knowledge of advanced algorithms, 6 credits, equivalent to completed course DD2440.

Knowledge of theoretical computer science and mathematics equivalent to the other three courses taken by the student in the theoretical computer science track of the Master's Programme in Computer Science. The courses must be either completed or taken in parallel with DD2467.

Language of instruction

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

Intended learning outcomes

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

- independently plan, carry out and report a design or investigative task in theoretical computer science
- acquire and evaluate information applicable for carrying out the task
- choose a course of approach and define, follow and follow up a plan for carrying out the task in a given resource budget,
- write legible reports in English or Swedish that satisfy established norms as to structure, language and contents
- orally report a work with certain requirements of preparation, structure, style and time
- show increased knowledge and skills in theoretical computer science

in order to

- apply and deepen his or her knowledge in theoretical computer science in a larger individual project work.

Course contents

The course is the final part of the track in theoretical computer science. In the course, the student will solve a design or investigation task in theoretical computer science with limited supervision, and report the results. Both course content and assessment are designed individually for each student.

Examination

- PRO1 - Project, 7.5 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.

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.