



DD2542 Seminars on Theoretical Computer Science, Algorithms and Complexity 7.5 credits

Seminariekurs i teoretisk datalogi, algoritmer och komplexitet

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

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

Establishment

The head of school at the school of electrical engineering and computer science has 13/10/2020 determined to establish this official course syllabus to apply from autumn term 2021, registration number: J-2020-1828.

Grading scale

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

Education cycle

Second cycle

Main field of study

Computer Science and Engineering

Specific prerequisites

Completed course in algorithms and complexity equivalent to DD2350/DD2352.

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

Registering for a course is counted 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 course, the student shall be able to

- discuss advanced concepts within the area of the course
- attack problems within the area of the course actively, both through own work and through search of relevant information
- assimilate and present the essential contents of scientific articles within the area of the course.

Course contents

The course content may vary from course offering to course offering. Examples on topics are approximation algorithms, data mining, cryptography, parallel computations and probabilistic algorithms.

Examination

- ÖVN1 - Exercises, 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.

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.