2D1043 Degree Project in Computer Science (Bachelor of Science) 15.0 credits

Examensarbete inom datalogi för kandidatexamen

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

Course syllabus for 2D1043 valid from Spring 2011

Grading scale

G, D, U

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

The course can only be taken by students on the computer science and engineering program 270 ECTS credits (enrolled before July 1, 2007).

The following number of ECTS credits and courses are required to start the degree project:

- At least 120 ECTS credits including what is mentioned below
- At least 75 ECTS credits giving successively deepened knowledge within the main area.
- The course DD1365 Software Engineering, or corresponding
- The course 2D1347/DH1600 Communication or corresponding

Language of instruction

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

Intended learning outcomes

The student should, after conducting a degree project in computer science, be able to

- Apply skills and knowledge acquired as part of the computer science engineering program on a given problem
- Independently analyze and discuss relevant issues and solve substantial problems in the computer science area
- Apply standard methods of practice in industry, administration and academic environments regarding planning, conducting, reporting and evaluating independent design and investigation projects,
- Reflect on, evaluate, and critically examine own and others scientific results
- Document and present the work, orally and in writing, with demands on structure, content, presentation, formal content, style, and writing
- Identify own need of information gathering and independently acquire the knowledge and skills needed to solve the problem
- Independently plan and conduct a design or investigation in the computer science area
- Independently collect and systematize requirements and expectations on the project deliverables, and asses the reasonableness of these in light of available time and resources.

Course contents

The degree project should examine an interesting problem in computer science. A suitable task should investigate relevant questions from the subject area. The focus of the work should be on research and analysis. Any practical work, such as programming, should be of secondary importance, and aim to investigate the research questions.

The work includes making a detailed specification and schedule for the work and to search and read literature that is relevant to the degree project. The scope should be such that it is evident that the student has worked half time during one semester. The work should be presented in a report and orally. There may be mandatory supervision sessions.

The degree project is conducted individually or together with one fellow student.

Course literature

To be decided individually.

Equipment

Depends on the project task.

Examination

- XUPP - Examination Question, 15.0 credits, grading scale: G, D, U

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.

In this course all the regulations of the code of honor at the School of Computer science and Communication apply, see: http://www.kth.se/csc/student/hederskodex/1.17237?l=en_UK.

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.