



DD1390 Programme Integrating Course in Computer Science Engineering 6.0 credits

Programsammanhållande kurs i datateknik

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 DD1390 valid from Autumn 2016

Grading scale

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

Education cycle

First cycle

Main field of study

Computer Science and Engineering, Technology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

On completion of the course, the students should be able to:

- use programme and course syllabuses, intended learning outcomes and grading criteria to plan their studies in both short and long term,
 - plan and perform tasks within stipulated time,
 - make well motivated specialization and course selections,
 - critically analyze and reflect on the structure and performance of the programme and their own study achievements,
 - follow the main thread of the programme and the progression of both subject knowledge and generic skills, in relation to the programme objectives and the future professional role,
 - identify the need of additional knowledge and continuously develop their competence,
 - analyze and evaluate social and ethical consequences of computer applications,
 - describe some important historic events in computer science,
 - find a relevant question formulation to a historic material,
 - perform a bounded computer science historic study and present it orally and in writing in order to
- get an overview of the education and thereby get an improved understanding of the importance of every single course,
 - make informed choices, both during their studies and afterwards,
 - influence the development of the programme.

Course contents

- How do course syllabuses, intended learning outcomes, grading criteria and examination work at KTH?
- Programme objectives, generic skills, main thread of the programme, lifelong learning.
- Minorities and equal treatment, internationalization, the professional role.
- The structure of the D programme, possible choices, master's programmes, mentoring, employability.
- Evaluation of the programme, quality development, student influence.
- Study techniques, own responsibility, procrastination, self reflection - what do I want with my education?
- Elementary ethics: Fundamental concepts, computer ethics (year 1).
- History of computer science and the computer in the development of society (year 2).

Disposition

Regular reflection seminars in small cross-grade groups, lectures and tutorials in ethics and history of computer science.

Course literature

Jannika Andersson Chronholm, Staffan Andersson: **Lär för din framtid - så lyckas du med högskolestudier**, Studentlitteratur, ISBN 978-91-44-06652-3

and course material on the course web.

Examination

- UPP1 - Assignments, 2.0 credits, grading scale: P, F
- UPP2 - Assignments, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- UPP3 - Assignments, 1.0 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.

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

Other requirements for final grade

Active participation in all compulsory activities, passed reflection documents, ethics essay and history of computer science project report.

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.