



DD2390 Internet Programming

6.0 credits

Internetprogrammering

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 DD2390 valid from Autumn 2009

Grading scale

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

Education cycle

Second cycle

Main field of study

Computer Science and Engineering, Information Technology, Information and Communication Technology

Specific prerequisites

Single course students: 90 university credits including 45 university credits in Mathematics or Information Technology. English B, or equivalent and Swedish B, or equivalent.

Language of instruction

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

Intended learning outcomes

After the course the students should be able to

- describe the principal structure of the internet and its most important protocols.
- use socket- and threadprogramming.
- explain the structure and function of the HTTP-protocol.
- develop a webpage with dynamic HTML.
- use distributed objects.
- use cryptography with JSSE.

so that they can

- develop a basic client-server system for the web.

Course contents

Basic knowledge of internet concepts such as protocol, datagram and internetworking. Socketprogramming, threadprogramming and chatprograms. HTML, CSS and javascript. Server-side programming with Java Server Pages. Applets and RMI. Cryptography with JSSE, SSL/TLS, HTTPS. XML and JAXP.

Course literature

Will be notified at least 4 weeks before the course starts at course web page. The previous year material produced at the department was used.

Examination

- LAB1 - Laboratory Work, 4.5 credits, grading scale: P, F
- PRO1 - Project, 1.5 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 all the regulations of the code of honor at the School of Computer science and Communication apply, see: http://www.kth.se/csc/student/heder-skodex/1.17237?l=en_UK.

Other requirements for final grade

Laboratory assignments (LAB1; 4,5 university credits).

Project work (PRO1; 1,5 university credits).

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.