DD2390 Internet Programming 6.0 credits

Internetprogrammering

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

Establishment

Course syllabus for DD2390 valid from Autumn 2008

Grading scale

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

Education cycle

Second cycle

Main field of study

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

Specific prerequisites

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 structe 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 2 weeks before the course starts at course web page. The previous year material produced at the department was used.

Examination

- PRO1 - Project, 1.5 credits, grading scale: P, F
- LAB1 - Laboratory Work, 4.5 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.

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

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.