DD2390 Internet Programming 6.0 credits

Internetprogrammering

Course syllabus for DD2390 valid from Autumn 09

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

Grading scale:
Education cycle: Second cycle
Main field of study: Computer Science and Engineering, Information Technology, Information and Communication Technology

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 main content

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.

Language of instruction

Language of instruction is specified in the course offering information in the course and programme directory.

Eligibility

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

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

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.

Requirements for final grade

Laboratory assignments (LAB1; 4,5 university credits).
Project work (PRO1; 1,5 university credits).