DD1389 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 DD1389 valid from Autumn 2016

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

For non-program students, 90 credits are required, of which 45 credits have to be within mathematics or information technology. Furthermore English B or the equivalent and Swedish B or the equivalent are required.

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, you should be able to

- describe the principal structure of the internet and its most important protocols
- use socket and thread programming
- explain the structure and function of the HTTP protocol
- develop a web page with dynamic HTML,
- develop on Android,
- use encryption techniques with JSSE

to have possibility to

- design simple client/server applications with Java for the web.

Course contents

Basic knowledge of internet concepts such as protocol, datagram and internetworking. Socket programming, thread programming and chat programs. HTML, CSS and javascript. HTTP servers. PHP, Java EE. PKI, JSSE, SSL/TLS, Android.

Course literature

Will be announced no later than 4 weeks before the start of the course on the course web. Previous academic 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.

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.