DD1386 Internet Programming 7.5 credits

Internetprogrammering

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

Establishment

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Knowledge and skills in Java programming, 7 credits equivalent to completed course DD1337/DD1385/ID1018, alternatively completed DD1380 including its eligibility requirements.

Knowledge in algorithms, data structures and basic software development techniques, 6 credits, equivalent to completed course DD1338/DD1320-DD1328/DD2325/ID1020/ID1021 or completed exam elements KONT and LABD in DD1326.

Intended learning outcomes

After passing the course, the student shall be able to

- describe Internet's fundamental structure and its most important protocols,
- explain the structure and function of the HTTP protocol
- develop dynamic web pages
- develop server programs with Java and NodeJS
- use encryption with JSSE

in order to be able to design simple client/server applications for the web with Java and NodeJS.

Course contents

Basic internet knowledge. Protocols, datagram, internetworking, socket programming, HTML, CSS, JavaScript, HTTP server, PKI, JSSE, SSL/TLS.

Examination

- LAB1 - Laboratory assignment, 3.0 credits, grading scale: P, F
- ÖVN1 - Exercises, 1.5 credits, grading scale: P, F
- PRO1 - Project work, 3.0 credits, grading scale: A, B, C, D, E, FX, 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.

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.