DD1389 Internet Programming 6.0 credits

Internetprogrammering

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

Establishment

Course syllabus for DD1389 valid from Spring 2022

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

After passed course, you should 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 serverside programs with Java NodeJS

· use encryption with JSSE

to have possibility to

· design simple client/server applications with Java NodeJS PHP and Python for web.

Course contents

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

Examination

- LAB2 - Literature assignment, 3.0 credits, grading scale: P, F
- PRO2 - 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.