



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 Spring 2022

Decision to discontinue this course

The course will be discontinued at the end of the spring semester 2024 according to the head of school's decision: J-2021-1962. Decision date: 2021-10-14. The course is given for the last time in the Spring semester 2022. The last opportunity for examination in the course is given in the Spring semester 2024. The examination is conducted during the transition period within the framework of the course DD1386. The course modules LAB1 and PRO1 in DD1386 correspond to the course modules LAB2 respectively PRO2 in DD1389.

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.

Transitional regulations

Examination can be completed during Spring semester 2023 and Spring semester 2024 within the framework of the course DD1386. The course components LAB1 and PRO1 in DD1386 correspond to the course components LAB2 respectively PRO2 in DD1389,

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.