



# DD1386 Internet Programming

## 7.5 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

The official course syllabus is valid from the autumn semester 2022 in accordance with Head of School decision: J-2021-3115. Decision date: 14/12/2021

### Grading scale

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

### Education cycle

First cycle

### Main field of study

Technology

### Specific prerequisites

Knowledge in fundamentals of computer science, 6 higher education credits, equivalent to completed course DD1338/DD1320/DD1321/DD1325/DD1327/DD2325/ID1020/ID1021.

Knowledge and skills in Java programming, 7.5 higher education credits, equivalent to completed course DD1337/DD1385/ID1018, or completed DD1380 including its specific prerequisites.

Active participation in a course offering where the final examination is not yet reported in LADOK is considered equivalent to completion of the course.

Registering for a course is counted as active participation.

The term 'final examination' encompasses both the regular examination and the first re-examination.

## Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

## 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
- PRO1 - Project work, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN1 - Exercises, 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.