Web programming

Single subject and programme course

6 credits

Webbprogrammering

732A56

Valid from: 2017 Spring semester

Determined by
The Quality Board at the Faculty of Arts and Sciences

Date determined
2017-06-13

Main field of study
Computer Science

Course level
Second cycle

Advancement level
A1X

Course offered for
- Masters Programme in Statistics and Machine Learning

Entry requirements
A bachelor's degree in one of the following subjects: statistics, mathematics, applied mathematics, computer science, engineering, or equivalent. Completed courses in calculus, linear algebra, statistics and programming are required. The course in programming should include object-oriented programming. Documented knowledge of English equivalent to Engelska B/Engelska 6

Intended learning outcomes
After completion of the course the student should on an advanced level be able to
- describe the techniques used in web programming
- describe the content management system and its use
- use technologies such as HTML, CSS, Javascript, Python, Flask, SQL and JSON in applications that involve interactive web content.
- develop applications for both client and server environments
- give an account of issues related to web services, creating such services and using existing ones.

Course content
The course covers the following areas:
- Overview of WWW, HTML, Javascript and other client-server techniques.
- Programming languages Python, Flask, SQL, Websockets, JSON and other server-side technologies

Teaching and working methods
The course will consist of lectures and dator laboratory exercises. Homework and independent study are a necessary complement to the course. Language of instruction: English.

Examination

Project work and laboratory work. Detailed information about the examination can be found in the course's study guide.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

Grades

ECTS, EC

Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

The course is carried out in such a way that both men´s and women´s experience and knowledge is made visible and developed.

Department

Institutionen för datavetenskap