

Web programming

Webbprogrammering
6 credits

Single subject and programme course

732A56

Valid from: 2017 Spring semester

Determined by	Main field of study	
The Quality Board at the Faculty of Arts and Sciences	Computer Science and Engineering	
Date determined	Course level	Progressive specialisation
2017-06-13	Second cycle	A1N
Revised by	Disciplinary domain	
	Technology	
Revision date	Subject group	
	Computer Technology	
Offered first time	Offered for the last time	
Spring semester 2017		
Department	Replaced by	
Institutionen för datavetenskap		

Course offered for

- Master's 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.

If special circumstances prevail, and if it is possible with consideration of the nature of the compulsory component, the examiner may decide to replace the compulsory component with another equivalent component.

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it.

If the coordinator has recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

An examiner may also decide that an adapted examination or alternative form of examination if the examiner assessed that special circumstances prevail, and the examiner assesses that it is possible while maintaining the objectives of the course.

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.

If special circumstances prevail, the vice-chancellor may in a special decision specify the preconditions for temporary deviations from this course syllabus, and delegate the right to take such decisions.