



Course syllabus

Faculty of Technology
Department of Computer Science

2DV607 RIA-utveckling med JavaScript, 7,5 högskolepoäng
RIA Development with JavaScript, 7.5 credits

Main field of study
Computer Science

Subject Group
Informatics/Computer and Systems Sciences

Level of classification
First Level

Progression
G2F

Date of Ratification
Approved by Faculty of Technology 2014-12-08
The course syllabus is valid from autumn semester 2015

Prerequisites
Introduction to Web Technologies (1IK415), 7.5 credits, Web Technology I (1DV403), 7.5 credits, Starting Out with C# (1DV402), 7.5 credits, Object Oriented Analysis and Design using UML (1DV407), 7.5 credits or equivalent.

Objectives

After completing the course, students should:

- be able to organize and deploy larger JavaScript applications
- possess an overview of the JavaScript community at large and has gained a general knowledge of information sources, libraries and applications
- have an efficient, personalized development environment
- be accustomed to familiarize themselves with API, third party libraries and exploit this in their own Applications.

Content

During the course, students gradually develop a JavaScript application, where the focus lies in the process. In parallel to the programming a report is written, in which students reflect on the development of different parts. Students also do a special assignment in an optional field of study.

The course contains:

- The structuring of JavaScript applications
- Help Libraries and frameworks
- Dynamic graphics and interface design

- Optimization of serving, packing and execution
- Test Driven Development.

Type of Instruction

The course is offered only as a distance course.

Tutoring is given continuously through the course forum or other channels such as Skype and Adobe Connect Pro.

Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail (i.e. received the grade F).

Grades are given for completion of the course and is based on the report, the development process, the application result and the presentation of the special assignment.

Re-examinations are offered within six weeks under the regular semester periods. The numbers of examinations are limited to five times.

Course Evaluation

A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

Credit Overlap

This course cannot be part of a degree in combination with another course in which the content fully or partly correspond to the content of this course: 2DV407 RIA Development with JavaScript, 7,5 credits

Other

To study this course it is necessary to have access to a Internet-connected computer equipped with a headset and webcam.

Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

Required Reading and Additional Study Material

Recommended Literature

Souders, Steve m fl (2009) Even Faster Websites, ISBN 0596522304, app. 250 pages.

Crockford, Douglas (2008) JavaScript: The Good Parts, ISBN 0596517742, app. 150 pages.

Odell, Den (2009) Pro JavaScript RIA Techniques, ISBN 1430219343, app. 350 pages.

Web-based materials are provided on the course website.

The Required Reading and Additional Study Material are subject to changes.