



ID1354 Internet Applications

7.5 credits

Applikationer för internet, grundkurs

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for ID1354 valid from Autumn 2018

Grading scale

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

Education cycle

First cycle

Main field of study

Information Technology, Technology

Specific prerequisites

- ID1018 Programming I, or equivalent knowledge.
- IV1350 Object Oriented Design, or equivalent knowledge.

Language of instruction

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

Intended learning outcomes

After the course you shall be able to build a well-designed web application using appropriate languages, tools and methods. Thus, after completing the course you shall be able to:

- Use HTML and CSS to build web pages, using appropriate tools. Participate in a discussion regarding the quality of such pages, referring to established best practices.
- Use a well-established programming language, for example PHP and/or JavaScript, to build a web application, using appropriate tools. Participate in a discussion regarding the quality of such an application, referring to established best practices.
- Implement and evaluate a layered architecture, for example MVC or MVVM.
- Explain and implement some non-functional requirement.
- Explain and implement fundamental user interface design guidelines.
- Explain all parts of a web application in a written report.

Course contents

The course covers concepts and methodologies of building web applications, which is also practiced in multiple programming assignments, using markup and scripting languages like HTML, CSS, JavaScript and PHP. In addition to programming languages, the course covers fundamental architectural patterns, like MVC and MVVM, theories of user interface design, and common software tools for Internet application development. Also, it introduces non-functional requirements like security, response time and throughput.

Course literature

Nixon, Robin: Learning PHP, MySQL, JavaScript, CSS & HTML5, 5th ed. (O'Reilly 2018)
ISBN: 978-1491978917.

Examination

- TEN1 - Written Examination, 2.5 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Assignment, 5.0 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.

If the course is discontinued, students may request to be examined during the following two academic years.

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.