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 2007

Grading scale

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

Education cycle

First cycle

Main field of study

Information Technology, Technology

Specific prerequisites

The student should know programming in any programming language. The knowledge should be at least at the level of a basic programming course.

Language of instruction

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

Intended learning outcomes

Requirements for grade E:

The student should by him/her self, without html editor, be able to create static xhtml pages, according to the xhtml standard, with all types of content.

The student should be able to graphically design a web page with CSS (according to the CSS standard).

The student should be able to write simple javascripts and be able to follow an implemented javascript code and modify it.

The student should be able to connect to a database from a programming language and make updates and collect results from a database question.

The student should know SQL for inserting, updating and searching in a database with conditions.

The student should be able to implement a serverside script in any programming language which communicates with a database and handles post data.

The student should be able to assess a web site considerating everything from user friendlyness, xhtml code, CSS code, javascript code and server side script code.

Higher degrees A-D are received by students who:

Shows that they have such a deep knowledge that they are able to implement a serverscript even for administration of a database used for a web site.

Shows that they are able to implement a server side script in more than one programming language.

Shows that they have a webbsajt development understanding including design, user friendlyness and good code design, by applying it in the examination webbsajt.

Course contents

Theory and programming in:

XHTML, CSS, Javascript

Java servlets och JSP and/or

Asp .Net and/or

PHP

Basics about databases, SQL basics

Theory for server side programming.

Theory about the http protocol, cookies, sessions

Course literature

.Net Application Development with C#, ASP .NET and Web Services (Av: MössenBöck, Beer, Birngruber och Albrecht W. ISBN:3-89864-126-0)

Head First Servlets and JSP (Av: Basham, Sierra & Bates ISBN: 0-596-00540-7)

PHP and MySQL Web Development, 3rd edition (Av: Luke Welling & Lura Thomson ISBN: 0-672-32672-8)

Övrig litteratur

Vi använder framför allt webbsidor som kurslitteratur eftersom kursen spänner över så många olika områden. För de som önskar köpa en kursbok för det valda serverspråket rekommenderas dessa böcker:

Examination

- INLA - Assignment, 5.0 credits, grading scale: P, F
- INLB - Assignment, 2.5 credits, grading scale: A, B, C, D, E, FX, 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.

Other requirements for final grade

Lab1 - 4p
Programming a web site from a static xhtml, to javascript to a fully functional web site generated in any server side programming language connected to a database.

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.