



HALMSTAD UNIVERSITY

Phone +46 35 16 71 00 - www.hh.se
School of Information Science, Computer and Electrical Engineering

SYLLABUS

-translated from Swedish
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Course Code: IK2015 / 4

Web Systems Fundamentals, 7.5 credits

Grundläggande webbsystem, 7.5 hp

First level

Progression: 1-30

Main field: Informatics/Information Systems GIF

Syllabus is adopted by the School of Information Science, Computer and Electrical Engineering (2008-05-16), effective starting spring 2011.

Placement in the Academic System

The course is included in Network Design and Computer Management 60 credits.

Prerequisites and Conditions of Admission

Computer Networks I 7,5 credits or Computer systems administration 7,5 credits or equivalent.

Course Objectives

The aim of the course is to provide knowledge in the building of web solutions. This involves the design of server solutions, choice of programming language together with the building of dynamically-generated webs with database connections in a programming language. The course also provides an overview of the multi-faceted web design area with new programming models and content management systems. Following completion of the course, the participant should be able to design a web solution including aspects ranging from the choice and installation of servers and developmental systems to programming and putting into operation web applications with connections between web and database.

Upon completion of the course, the student shall be able to:

- build a web site using the standards XHTML and CSS
- produce a simple web page which obtains data from a database
- describe new technologies for web management
- install and configure a web server
- install a web application on a web server

Primary Contents

- design of web pages with an introduction to XHTML, CSS etc

- programming of dynamically-generated web pages
- design of server solutions suited to the needs of web applications
- use and implementation of a ready-modelled database design
- overview of content management system, advanced programming models for web design and their effect on the server side

Teaching Formats

Teaching consists of lectures, project work and exercises. A functioning web application is built.

Teaching is normally in Swedish but teaching in English can also take place.

Examination

The overall grades of Fail, 3, 4 or 5.

The examination will be carried out through assessment of the project and reports together with written tests.

Upon completion of a course, the student has the right to re-sit an examination up to a maximum of four times.

Course Evaluation

Course evaluation is part of the course. This evaluation should offer guidance in the future development and planning of the course. Course evaluations should be documented and made available to the students.

Course Literature

Spaanjaars, Imar. *Beginning Asp.Net 4:In C# and VB*. John Wiley And Sons Ltd, 2010