DD1051 Database Technology and Data Communication 7.5 credits

Databasteknik och datorkommunikation

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

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

Establishment

Course syllabus for DD1051 valid from Spring 2009

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

First year courses of the bachelor's program in media technology or equivalent.

Language of instruction

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

Intended learning outcomes

After completed course, you shall be able to

- describe how computers communicate over a network
- work in a Unix environment
- describe and create simple XML files
- design (and write SQL questions for) simple databases
- describe security problems for computers and computer programs and a little about what can be done about them
- use a modern server pages language (PHP) to write simple dynamic
- webb pages hooked up to a database.

Course contents

The course consists of lectures, practical assignments and laboratory sessions. The course covers such areas as: computers, computer techniques, computer communication, networks, Internet's structure, web-programming, protocols, client-server-techniques, information searches, information management, encryption and basic data base modelling.

Course literature

The course literature will be announced at the web page for the course at least 2 weeks before the course starts. Last year "Webbprogrammering med PHP" by Viktor Jonsson was used.

Examination

- LAB1 - Laboratory Work, 3.0 credits, grading scale: P, F
- LAB2 - Laboratory Work, 1.5 credits, grading scale: P, F
- TEN1 - Examination, 3.0 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.

Other requirements for final grade

Attendance at lectures and practical assignments, laboratory sessions (LAB1; 3 university credits),
(LAB2; 1,5 university credits) and written examination (TEN1; 3 university credits).

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.