



DD1370 Database Technology and Information systems 7.5 credits

Databasteknik och informationssystem

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

Establishment

Course syllabus for DD1370 valid from Autumn 2009

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

The students will, upon completion of the course, be able to model and implement a simple database. Further on, the students will be able to formulate queries, using SQL, to search information in such databases. Finally, the students will have basic knowledge in the use of decision support systems (data warehouses).

This implies that the students should be able to:

- * understand the functions and architecture of a database system,
- * be able to model and structure data according to actual constraints
- * be able to use a query language to formulate queries
- * use a simple decision support system.

Course contents

Definition of the relation model. Information structuring according to the "Entity Relationship"-model.

Simple rules for good database design. Query languages and a little about the mathematics behind them. Transaction management.

Assertion of security and integrity.

Laboratory assignments using experimental and commercial systems.

Disposition

The students participating in the course are expected to take part in all activities on the course with a particular emphasis on the exercises and laboratories.

In addition the course focuses on training: acquiring knowledge, training oral and written presentation.

Course literature

To be announced at least 4 weeks before course start at course web page.

Examination

- SEM1 - Seminar, 2.0 credits, grading scale: P, F
- TEN1 - Examination, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Computer Assignment, 2.5 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.

In this course all the regulations of the code of honor at the School of Computer science and Communication apply, see: http://www.kth.se/csc/student/heder-skodex/1.17237?l=en_UK.

Other requirements for final grade

Examination by seminar tasks, laboratory assignments and one written examination.

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.