IV1023 Advanced Information Handling with XML 7.5 credits

Avancerad datahantering med XML

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

Establishment

Course syllabus for IV1023 valid from Autumn 2011

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Basic knowledge of database modeling and relational databases. (Course IV1351 or equivalent)

Language of instruction

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

Intended learning outcomes

Having passed the course, the student shall be able to:
- explain, discuss and use different technologies for managing XML-data and semistructured data in general.
- use different techniques for composition of XML-data and transformations between relational data and XML-data.
- use query languages for XML data and semistructured data.

Course contents

Semistructured data and XML data (models, representations, schemas).
Query languages for semistructured data and XML data.
Techniques for composition of XML-data and transformations between relational data and XML-data.
Applications of XML data

Disposition

Lectures, lessons, practical assignments, seminars.

Course literature

Querying XML, Jim Melton and Stephen Buxton, Morgan Kaufmann, 2006, ISBN: 9781558607118

Equipment

Windows compatible computer

Examination

- TEN1 - Examination, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory Work, 4.5 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

To pass the course, the student needs to pass on both the written examination and the laboratory tests. Final course grade is based on the grades of the two examinations together.

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.