UNIVERSITY OF BORÅS

Technology of Digital Libraries
Teknik för digitala bibliotek
7.5 credits

Ladok Code: ÖTDBS2
Version: 2.0
Established by: Board of the department 2010-06-15
Valid from: Autumn 2009

Education Cycle: First cycle
Main Field of Study (Progressive Specialisation): Library and Information Science (G2F)
Disciplinary Domain: other
Prerequisites:
Subject Area: Tourism and Recreation Studies
Grading Scale: Fail (U), Pass (G) or Pass with Distinction (VG)

Content
The course develops basic knowledge of and certain skills in using XML related technologies in different contexts, with respect to development of both services and collections. Technologies treated are XHTML, CSS, XSLT and XQL. In addition, common models for database management, data storage and communication technologies are introduced.

- XML as representation of structured data and structured documents
- XHTML and CSS for electronic publishing
- Database theory and the relational model
- SQL, XQL
- File formats

Learning Outcomes
After completion of the course the students should be able to

- define and use a simple XML application
- use XHTML and CSS in a formally valid way for publishing purposes
- understand and explain the distinction between standardized and prorprietary technologies, as well as their implications for development and sustainment of digital services and collections
- describe the relational database model and relate this to the development of a digital library infranstructure

Forms of Teaching
Tuition is conducted through written assignments, seminars, lectures, demonstrations, practices och project works.

Tuition is normally conducted in English.

Forms of Examination
The course is examined through written assignments, project works and final seminars.

The student have the rights to five (5) occassions for examination of which at least three (3) should be offered within one year.

Grading scale:
The grades for the course are one of Failed (U), Pass (G), or Pass with credit (VG).

Student rights and obligations at examination are in accordance with guidelines and rules for the University of Borås.

Literature and Other Teaching Materials

Churcher, Clare. (2007). Beginning database design. Berkeley, CA: Apress (300 p.)

or

Padron-McCarthy, Thomas & Risch, Tore (2005). Databasteknik. Lund: Studentlitteratur (646 p.)

Ray, E. T. (2003). Learning XML. Sebastopol: OReilly, 2 edition. (386 p.)

Student Influence and Evaluation

Students shall be involved in further development of the course and are therefore given the possibility to assess the course in a systematical way by written or oral means. How this assessment falls out and how it affects further development will be reported back to the students.

For course evaluation, the standard University College of Borås rules as of 7 June 2005 apply, dnr 56-02- 10.

Miscellaneous

The course is part of the Distance Master's Programme in Library and Information Science, the Master’s Programme Library and Information Science: Digital Library and Information Services and the Masters's Programme: Digital Services - Culture, Information & Communication .