UNIVERSITY OF BORÅS

Technologies of Digital Libraries 2
Teknik för digitala bibliotek 2
7.5 credits

Ladok Code: C3LTD2
Version: 3.0
Established by: Education Committee 2015-06-10
Valid from: Autumn 2015

Education Cycle: Second cycle
Main Field of Study (Progressive Specialisation): Informatics (A1N), Library and Information Science (A1N), Information Architecture (A1N)
Disciplinary Domain: Natural sciences
Prerequisites: Degree of Bachelor.
Subject Area: Informatics/Computer and Systems Sciences
Grading Scale: Seven-degree grading scale (A-F)

Content

- An introduction to mashups
- Make web data available to other websites
- Microformats, microdata and Rich snippets
- Representational State Transfer (REST) and API
- Resource Description Framework (RDF) and Sparql endpoints
- Controlled vocabulary
- Crowdsourcing
- Create a web mashup using data from other websites

Learning Outcomes
After passing the course the student should:

concerning *knowledge and understanding*
- Be able to analyze and reflect on the possibilities and limitations, as well as the pros and cons of open and linked data in Digital Libraries
- Demonstrate an understanding of technical standards of linked data
- Be able to explain the concept of Application Programming Interface (API)

concerning *skills and abilities*
- Be able to make web data available using Microformats, Microdata or Rich snippets
- Be able to create a simple web-mashup using open linked data

Forms of Teaching
Tuition is conducted through lectures, exercises and tutoring

The language of instruction is English.

Forms of Examination
The course is examined through written assignments and paper.

In the event of changes in course plans students who wish to complete courses can be examined on the basis of the most recent

version of the course plan. For courses that are no longer running, students who wish to complete such courses can read all or part of an equivalent course. (This is in accordance with the Director's decision, Dnr 516-13, 11th June, 2013)

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

Literature and Other Teaching Materials

Van Hooland, S & Verborgh, R. (2014). Linked Data for Libraries, Archives and Museums: How to clean, link and publish your metadata. London: Facet Publishing

Engard, Nicole C. (red.) (2014). More Library mashups: exploring new ways to deliver library data. Medford, N.J.: Information Today, Inc.

Student Influence and Evaluation

Students assessments of courses will be systematically collected in written and/or oral form and reported back to students. Assessments will form the basis of the future development of courses. See further the University's policy for course evaluation: dnr 56-02-10, the University College of Borås, 7th June 2005.

Miscellaneous

Master’s programme: Library and Information Science, Digital Library and Information Services.