Linnæus University

Dr: 2022/3066-3.1.2.2

Course syllabus

Faculty of Arts and Humanities

Department of Cultural Sciences

1BO525 Kunskapsorganisation IV: nätverksbaserad kunskapsorganisation, 7.5 credits

Knowledge organisation IV: network based knowledge organisation

Main field of study
Library and Information Science

Subject Group
Library and Information Science

Level of classification
First Level

Progression
G1F

Date of Ratification
Approved 2018-09-19
Revised 2022-09-02 by Faculty of Arts and Humanities. Revised type of instruction.
The course syllabus is valid from spring semester 2023

Prerequisites
60 credits Library and Information Studies, including the courses
1BO420 Knowledge Organisation II: Cataloguing and Metadata, 7.5 credits,
1BO425 Knowledge organisation III: subject analysis, classification, indexing, 7.5 credits,
or the equivalent.

Objectives

After completing the course, the student should be able to

- explain the conditions for reaching metadata compatibility in web-based discovery systems
- explain the conditions for reaching metadata compatibility through semantic web standards
- describe and discuss different standards for the semantic web and linked data
- explain the most important aspects of XML
- create basic XML posts.

Content

The semantic web is introduced as a vision for trying to manage the challenges of infomation organisation and recycling in today’s vast amounts of information. The course discusses libraries and cultural heritage institutions' way of making their metadata available as open linked data to make them more visible and searchable. It also problematises important issues to do with the accessibility of metadata, including meta compatibility between systems as web-scale discovery services. Different standards for converting library metadata to linked data for the semantic web are discussed. To further develop students’ understanding of the semantic web infrastructure, XML is studied from a practical perspective as an important underlying format for metadata in global environments.

Type of Instruction

Teaching is delivered in the form of lectures, seminars and laboratory sessions.

Parts of the teaching may be conducted in English or Scandinavian languages other than Swedish.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

The course is examined through an individual written assignment of 3 credits, two oral and written seminar assignments of 2 credits in total, and a written group assignment of 2.5 credits.

In order to receive the grade of Pass, the student must achieve the objectives. Grading criteria for the grade of Pass with Distinction will be specified in writing when the course starts. Repeat examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University. If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to give a customised exam or to have the student conduct the exam in an alternative way.

Course Evaluation

During or shortly after the course, a course evaluation should be conducted. The result and analysis of the course evaluation should be promptly communicated to the students who have taken the course. Students who are taking the course when it is offered the next time should be informed of the result at the course introduction. The course evaluation is anonymous.

Required Reading and Additional Study Material

Digisam. (the latest edition). *Vägledande principer för arbetet med digitalt kulturarv*. 10 pages. Available online.

Golub, Koraljka. (the latest edition). *Subject access to information: An interdisciplinary approach*. Santa Barbara, CA: Libraries Unlimited, An Imprint of ABC-CLIO, pp. 67–98.

Mitchell, Erik. (the latest edition). “Library linked data: Early activity and development”. *Library Technology Reports.* 37 pages.

Spiteri, Louise F. (the latest edition). *Managing metadata in web-scale discovery systems*. London: Facet. 188 pages.

W3Schools. XML Tutorial. 50 pages. Available online.

Willer, Mirna, & Dunsire, Gordon. (the latest edition). *Bibliographic information organization in the Semantic Web*. Oxford: Chandos Publishing. 350 pages.

Zeng, Marcia Lei, & Mayr, Philipp. (the latest edition). “Knowledge Organization Systems (KOS) in the Semantic Web: A Multi-Dimensional Review”. *International Journal of Digital Libraries.* 31 pages.