

Master course (grp. 2): The Web of Data and XML (XML)

Om kurset

uddannelse	Computer Science / Informatik
sted	43.2-29
Kurstype	Kandidat 1. modul
Undervisningsprog	English
Kursus starter	04-02-2014
Kursus slutter	22-04-2014

Contents

Indhold	<ul style="list-style-type: none">• Data models for web data.• Essentials of XML (Extensible Markup Language)• XML dialects - XHTML, SOAP,• Semantic Web concepts• RDF (Resource description framework)• Ontologies• Link to classical databases• XML-enabled and native-XML databases• Survey of typical applications• Cases study
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Goal

mål	Computer applications increasingly have access to online data and exchange data with other online applications. Huge amounts of data are now stored in "the Cloud". This "web of data" includes data mined from online sources such as social websites. The first goal of this course is to introduce the essentials necessary for designing systems and exploiting the possibilities opened up for sharing data and building information systems and services around the web of data. The second goal is to introduce concepts that turn "data" into "knowledge"; how to attach semantics to data so that applications can process it more meaningfully and intelligently.
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litteratur	Collection of articles.
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Kursusdage	Tuesdays at 1.00 - 5.15 p.m. in the period from 4 February - 22 April 2014.
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Undervisningsform	Lectures and exercises.
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Eksamensform	20 min. individual oral exam based on a written assignment incl. grading.
	External examiner and 7 step scale.

Eksamenstidspunkt Wednesday 4 June 2014.

Reksamensform 20 min. individual oral exam based on a written assignment incl. grading.
External examiner and 7 step scale.

reksamenstidspunkt Before end of August 2014.

The student taking this course will

formål

- be familiar with XML and associated languages such as DTD and Query;
- know how to use XML for modelling data, storing and retrieving it in databases;
- know how online data can be exploited by applications;
- understand the basic concepts of the Semantic Web;
- know how to store, query and retrieve XML data in conventional databases.

Aktivitetsansvarlig John Patrick Gallagher (jpg@ruc.dk)

Kursussekretær Heidi Lundquist (heilu@ruc.dk)

Underviser Christian Theil-Have (cth@ruc.dk)

forelæsning

STADS belastning : 7.5 ECTS
stamdata

aktivitetskode : U24645 /
U24646

prøveform : mundtlig

bedømmelse : 7-trinsskala

censur : Ekstern censur