Development of Digital Preservation Systems 7.5 credits B7006N

Utveckling av system för digitalt bevarande

Course syllabus admitted: Autumn 2023 Sp 1 - Present

DECISION DATE
2021-02-25

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Utveckling av system för digitalt bevarande

Second cycle, B7006N

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	U G VG *	Informationsteknik	Computer Technology

Entry requirements

Minimum 120 ECTS of university studies including 60 ECTS in the areas of Computer Science, Systems Science, Archival Science or Library and Information Science.

Selection

The selection is based on 30-285 credits

Course Aim

The student will be able to:

- Apply digital preservation concepts and models, including characteristics and activities, to describe digital preservation scenarios
- Identify problems and possibilities with different digital preservation tools and systems in relation to different organizational contexts and systems;
- Describe and analyze how long-term perspectives and organizational concerns influence the implementation of digital repositories;
- Identify requirements and suggest solutions.

Contents

The students are introduced to the field of long-term digital preservation, and the concepts and models that are common in digital preservation. The course covers preservation concepts such as format, significant properties, integrity, authenticity and content types. The course also introduces models that are used in digital preservation, such as the Open Archival Information Systems (OAIS) model, which is widely used as a reference model in work with digital preservation.
Based on the above the course focuses on principles for the design and development of systems for digital preservation, including frameworks, tools and standards suitable in a long-term perspective.

Realization

Each course occasion´s language and form is stated and appear on the course page on Luleå University of Technology's website.

Teaching is online. IT support: Learning management system, video conference system, e-mail and phone.

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Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. An individual written home examination (4 credits, U / G / VG) deals with the design of systems for digital preservation and analysis of how long-term perspectives affect the design and development of these systems. Written group assignments (3.5 credits, U / G) include design and development of systems for digital preservation as well as analysis of problems concerning long-term digital preservation in an organizational context, and analysis of how these problems can be remedied.

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Remarks

Technical Requirements: access to a computer, microphone, Web cam and permission to install software. Internet connection (minimum 0,5 Mbps).

Course offered by

Department of Computer Science, Electrical and Space Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Group work	U G#	3.5	Mandatory	S12	
0003	Take-home examination	U G VG *	4	Mandatory	A17	

Last revised

by Jonny Johansson, HUL – SRT 2021-02-25

Syllabus established

by Harriet Nilsson 2010-11-19

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