

**SYLLABUS**

# **Informations management and modelling 7.5 credits Z0016E**

**Informationsmodellering**

**Course syllabus admitted: Autumn 2021 Sp 1 - Present**

**DECISION DATE  
2021-08-24**

# Informations management and modelling 7.5 credits Z0016E

## Informationsmodellering

### First cycle, Z0016E

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	U G VG	Informatik	Informatics/Computer and Systems Sciences

## Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and Good knowledge of design of IT systems, corresponding Design of IT (I006N) and IT design from a system perspective (I0005N) and good knowledge of database skills corresponding to Databases I (D0004N) and Databases II (D0005N) or analogous knowledge acquired through other courses or proved practical work.

## Selection

## Examiner

Johan Wenngren

## Course Aim

After passing the course, the student should be able to:

Knowledge and understanding

- Manage and structure a company's information based on theory and using digital tools

Skills and Abilities

- Describe and analyze different concepts that ensure communication between parties
- Describe and analyze a company's information, its meaning, structure and rules in order to then be able to develop different information models
- Design solutions that ensure that different stakeholders receive the information required to work effectively

Evaluation ability and approach

- Critically review, evaluate and reflect on information models

## Contents

This course focus on the student accuring and applying knowledge related to describing, modeling, analysing, manage and design an organisations information. The student learn how to structure information that forms the basis for design of digital services. During the course, the student will work practically and in laborations by applying their knowledge to ensure that the information models present information that are relevant, accurate and usable for its users. After the course, the student should be able to apply innovation theories to design and develop information processes.

## Realization

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

This course is given both on campus and at a distance. Within the framework of the course, the student participates in various teaching elements such as workshops, discussion seminars, group work, critical review and lectures. The student works independently and is trained in describing, modeling and presenting information from several perspectives. During the course, the student also practices presenting his work in shorter reports and presentations and giving and receiving feedback to other students. The student will also independently identify relevant issues in relation to the area, which then forms the basis for discussion. Between the meetings, the students communicate with teachers and classmates via e-mail, and an online learning platform. In this course, the learning platform is used to make information, course materials and assignments available and to handle assignments.

## 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. All included examination parts must be completed for the final grade on the course:

- Individual assignment 4.5 credits, TG U G VG

Iterative development of models for information architecture and reflective logbook about own learning. Peer review and feedback on other students' work. Individual information is reported in writing.

- Group assignments, 3.0 credits, TG U G #

Production of needs documentation, development of information models and practical implementation in a CMS. Group information is reported in writing and orally.

Mandatory attendance is required at seminars.

## Literature. Valid from Autumn 2021 Sp 1

Information Architecture, Designing for the Web and Beyond (4th edition)  
ISBN 9781491911686

<https://www.bokus.com/bok/9781491911686/information-architecture-4e/>

## Course offered by

Department of Computer Science, Electrical and Space Engineering

## Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Compulsory indiviul assignments	U G VG	4.5	Mandatory	A21	
0002	Compulsory group assignments	U G#	3	Mandatory	A21	

## Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

# Syllabus established

by Jonny Johansson, HUL SRT 2021-08-24