

SYLLABUS

Informations management and modelling 7.5 credits I0003E

Informationsmodellering

Course syllabus admitted: Autumn 2023 Sp 1 - Present

**DECISION DATE
2021-02-25**

Informations management and modelling 7.5 credits I0003E

Informationsmodellering

First cycle, I0003E

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

Main field of study

Social Informatics, Information 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 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).

Selection

The selection is based on 1-165 credits.

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.

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.

Course offered by

Department of Computer Science, Electrical and Space Engineering

Modules

| Code | Description | Grade scale | Cr | Status | From period | Title |
|------|-----------------------------------|-------------|-----|-----------|-------------|-------|
| 0001 | Compulsory individual assignments | U G VG * | 4.5 | Mandatory | A18 | |
| 0002 | Compulsory group assignments | U G# | 3 | Mandatory | A18 | |

Last revised

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

Syllabus established

by Jonny Johansson, HUL SRT 2018-02-15