

SYLLABUS

IT-design and Systems Thinking 7.5 credits I0005N

IT-design från ett systemperspektiv

Course syllabus admitted: Autumn 2024 Sp 1 - Present

**DECISION DATE
2024-02-15**

IT-design and Systems Thinking 7.5 credits I0005N

IT-design från ett systemperspektiv

First cycle, I0005N

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 7,5 hp in social informatics, systems science, design or similar fields. Examples of courses in LTU are: D0020N - Information Systems Development, D0021N - IT-projctets, I0001N - Organisational development throught IT and I0006 - Design of IT.

Selection

The selection is based on 1-165 credits.

Course Aim

Knowledge and understanding

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

- Explain how social and cultural aspects affect the development of information systems
- Describe, reflect on and apply the theories and models covered in the course

Skills and Abilities

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

- Present their group work and individual work in writing and orally in a professional manner
- Critically examine one's own and others' approaches to group work

Evaluation ability and approach

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

- Develop proposals that take into account cultural and social perspectives and gender equality

Contents

The student starts out from the social context in which information systems are used. Models, methods and techniques that focus on social and cultural aspects of the systems design process are presented, discussed and applied. The student applies methods and techniques in assignments, and presents, analyses and evaluates the work, which increasingly develops the understanding. The students work both individually and in groups and the assignments are presented orally and in writing.

Realization

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

The teaching consists of various teaching elements, where the student participates through their own work and a group work, as well as through discussions with teachers and other students. Theory and practice are alternated by the student working with methods and techniques in smaller tasks, presenting, analyzing and evaluating their application and then applying these in a larger task. During the course, the student works varying individually or in groups and the assignments are presented in both oral and written presentations. The teaching takes place partly through teacher-led reviews of elements, partly of tasks and problems that the student has solved individually or in groups and presents orally and in writing. The student also practices collaborating in groups. The examination is mandatory. Between meetings, students communicate with classmates and teachers via email, an online learning platform and a web conferencing system. The learning platform has access to information, course materials and assignments. With the help of the learning platform, students can participate in group discussions and submit both individual assignments and group work.

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. The course is examined in the following way, in the individual assignments the student must show the ability to explain orally and in writing, how social and cultural aspects affect the development of information systems, describe, analyze and discuss the methods, models and techniques included in the course. In the group assignments, the student is examined on his / her ability to apply the theories and models that are dealt with in the course and to critically examine his or her own and others' approaches to project work.

Grading scale for the individual examination assignments is U G VG (4.5 credits), and for the group assignment U G (3 credits).

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

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

The course might be in English.

Course offered by

Department of Computer Science, Electrical and Space Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Individual assignment reports	U G VG *	4.5	Mandatory	A07	
0003	Group assignments	U G#	3	Mandatory	S16	

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.

Last revised

by Robert Brännström 2024-02-15

Syllabus established

by Department of Business Administration and Social Sciences 2007-08-28