

SYLLABUS

Information Systems Development 7.5 credits D0020N

Utveckling av informationssystem

Course syllabus admitted: Autumn 2023 Sp 1 - Present

**DECISION DATE
2023-02-15**

Information Systems Development 7.5 credits D0020N

Utveckling av informationssystem

First cycle, D0020N

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

Main field of study

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

Selection

The selection is based on final school grades or Swedish Scholastic Aptitude Test.

Course Aim

After the course the student should be able to:

- explain what systems science is and describe the role of the systems scientist.
- explain basic concepts in systems science and the connections between these concepts.
- apply theoretical knowledge of information systems by analyzing a company's information system
- describe traditional system development, object-oriented system development, agile development.
- write a minor scientific report
- plan and carry out a simple project
- report the project in writing and orally

General skills according to the Higher Education Ordinance:

- Demonstrate knowledge and understanding in the main area of education
- Demonstrate the ability to search, collect, evaluate and critically interpret relevant information in a problem statement
- Demonstrate the ability to independently identify, formulate and solve problems and to carry out tasks within given time frames
- Demonstrate the ability to orally and in writing describe problems and solutions

Contents

- System Sciences
- Knowledge, information and data
- Information systems
- Systems Development
- Object-oriented Systems Development
- Agile Methods
- Project work
- Introduction to scientific work
- Survey of a company's information system

Realization

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

Scheduled lessons are followed by theoretical and practical tasks; Quiz, oral presentation, scientific report and a Group work where the students examine a real-life company. Knowledge is shared and created within the course through virtual meetings with teachers and other students for discussions, supervision, teamwork and seminars. For student on campus there will be meetings on campus.

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.

Redovisa projektuppgifter muntligt och skriftligt 3,5 hp
Examinationen sker kontinuerligt efter varje kursavsnitt.

Individuell examination 4 hp
Quizzar, vetenskaplig rapport

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 PC with Windows XP, microphone, Web cam and permission to install software. Internet connection (minimum 1Mb/sek) . For more information contact the course coordinator.

Overlap

The course D0020N is equal to IED400, IED425, IED402, IED435, IED300, IED008

This course cannot be combined with IED300, IED400, IED402, IED425, IED435, IED006 or IED008 in any degree.

Course offered by

Department of Computer Science, Electrical and Space Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0003	Individual assignment reports	U G VG *	4.5	Mandatory	A14	
0004	Group assignments	U G#	3	Mandatory	A14	

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students

Document	Education	Admitted in	Date	Page
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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 2023-02-15

Syllabus established

by Institutionen för industriell ekonomi och samhällsvetenskap 2007-02-28