Objectoriented analysis and design 7.5 credits D0006N

Objektorienterad analys och design

Course syllabus admitted: Autumn 2023 Sp 1 - Present

DECISION DATE
2021-06-16

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Objectoriented analysis and design 7.5 credits D0006N

Objektorienterad analys och design

First cycle, D0006N

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 and Basic knowledge of systems development.

Selection

The selection is based on 1-165 credits.

Course Aim

After the course the student will be able to

- analyze requirements and how to design an information system from an object-oriented perspective.
- explain the importance of design when implementing an information system
- use a modelling tool in the process of system development
- present and oppose a verbal presentation in a conference system.

Contents

The course is about: Requirements, Analysis, Design, and Implementation and Project Work. Requirements are about activities when identifying requirements on the information system. Analysis deals with basic notation for Unified Modelling Language (UML) and analysis of requirements specifications. Design is about system architecture, system design, design patterns, user interface. Implementation deals with aspects that are important in the design phase when the information system is implemented. Project is a fictive case for which an information system is going to be developed.

Realization

Each course occasion´s language and form is stated and appear on the course page on Luleå University of Technology's website.
The education is net-based and the lessons could be both in real time in a conference system. The lessons will be recorded and accessible afterwards. The project is presented oral and recorded or \"live\". There are three compulsory parts, the written exam and two oral presentation of the project. The lessons give a theoretical overview which is used practically in the project work. The project is carried through in groups of 2- 3 students.

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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.
Project assignment (3 credits)
Project information is reported in writing.

Individual written exam (4.5 credits)
All, both distance and campus students, write the individual exam online. Webcam and microphone are a requirement

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

Access to a computer and administrators authority or possibility to get software installed. Access to a headset and microphone and also a webcam. Internet connection (minimum 0,5 Mbps).

Overlap

The course D0006N is equal to IED410, IED317

Course offered by

Department of Computer Science, Electrical and Space Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0004	Project work/test	U G#	3	Mandatory	A16	
0005	Written exam	U G VG *	4.5	Mandatory	S22	

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 Jonny Johansson, HUL SRT 2021-06-16

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Syllabus established

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

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