

SYLLABUS

Thesis C - Systems Science 15 credits D0032N

Examensarbete - systemvetenskap

Course syllabus admitted: Autumn 2023 Sp 1 - Present

**DECISION DATE
2021-11-18**

Thesis C - Systems Science 15 credits D0032N

Examensarbete - systemvetenskap

First cycle, D0032N

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 at least 90 credits in completed courses, of which at least 60 credits are compulsory courses in the System Science Program, FKSYG.

Selection

The selection is based on 1-165 credits.

Course Aim

The overall goal of the course is for the student to practice, develop and demonstrate skills in correctly applying theory and method to solve unstructured problems of relevance to a professional systems scientist.

Knowledge and understanding

After the course the student should be able to:

- Formulate a relevant problem based on a chosen topic in the field of systems science
- Describe, apply and discuss different theories within the subject

Skills and Abilities

After the course the student should be able to:

- Plan and carry out scientific work
- Argue for the choice of relevant theoretical basis for the work
- Select, motivate, apply and describe the use of the method for the study
- Carry out relevant data collection in relation to the problem, chosen theory and method
- Express yourself in a linguistically correct way
- Argue for their results
- Orally communicate results both internally and to individuals without specific subject knowledge

Evaluation ability and approach

After the course the student should be able to:

- Critically review the study of others in a constructive and scientific way

Contents

The course focuses on deepening and broadening the understanding and use of scientific methods and theories to study, understand and contribute to a specific situation that can be related to the field of systems science.

Realization

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

The course means that the student performs scientific work. The student must choose a subject or problem that is within the systems science subject area. The scientific work must be based on theory and empirical data, as well as independently planned and implemented. The work is done with support in discussion seminars and tutorials. The student must also actively participate in seminars and continuously comment on other people's work. The work must be reported orally and in writing and defended against opponents.

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 seminars by presenting one's own and opposing others' degree projects. All included examination parts must be completed for the final grade on the course.

Examination takes place through

- Active participation in at least 4 of 5 compulsory discussion seminars by analyzing and commenting orally and in writing on someone else's degree project (1hp, U, G).

At the time of examination, the student is examined through

- Opposition of a degree project (oral and written, 1hp, U, G)
- Oral presentation of own work (1 credits, U, G)
- Written presentation of own degree project (12 credits, U, G, VG)

In the written report, the student must show the ability to:

- Logically and / or with the use of references justify the chosen problem
- Based on the chosen problem, seek, present and perform motivated choices on a theoretical basis (basic starting point) for the own study
- Choose and motivate the method for the study with an understanding of the impact of the choice on the study results
- In connection with the chosen theory and method, collect information relevant to the problem formulation
- Present the collected information in writing in a relevant manner
- Based on the chosen theory and method, correctly analyze and answer the formulated problem
- Assess the scientific and practical relevance of the results obtained
- Express oneself well in writing in a linguistically and scientifically correct way

During the oral presentation and the opposition, the student must show the ability to:

- Orally communicate results both internally and to individuals without specific subject knowledge
- Defend their results

In opposition to other work, the student must show the ability to:

- Critically review other studies in a constructive and scientific manner and to communicate the review performed both orally and in writing.

For passing the course, e-publication of the work is also required according to LTU's rules.

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: PC with permission to install software. Internet connection (minimum 1 Mbps). Access to a headset and microphone and preferably also a webcam.

Course offered by

Department of Computer Science, Electrical and Space Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0002	Written report	U G VG *	12	Mandatory	A10	Yes
0003	Opposition	U G#	1	Mandatory	A10	
0004	Oral presentation	U G#	1	Mandatory	A10	
0005	Seminars	U G#	1	Mandatory	A10	

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 2021-11-18

Syllabus established

by Institutionen för industriell ekonomi och samhällsvetenskap 2009-02-22