

**SYLLABUS**

# **Master Thesis 30 credits A7009N**

**Examensarbete informationssäkerhet, master**

**Course syllabus admitted: Spring 2024 Sp 3 - Present**

DECISION DATE  
**2023-02-15**

# Master Thesis 30 credits A7009N

## Examensarbete informationssäkerhet, master

### Second cycle, A7009N

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	U G VG *	Informationsteknik	Computer Technology

### Main field of study

Information Security

## Entry requirements

At least 60 credits completed courses as required for the degree in the Master's Programme in Information Security, FMISA, at LTU. In addition to the above, the examiner decides whether the proposed degree project is within the subject area and that the student has the depth of knowledge required.

## Selection

The selection is based on 30-285 credits

## Course Aim

The overall aim of the course is that the student will practice, develop and show skills in applying theory and method to solve unstructured problems with relevance for the field of digital preservation.

- Develop and formulate a relevant research problem from a selected subject in the area information security
- Utilize scientific studies and judge their relevance for the selected problem
- Manage different, and differences between, theoretical areas at an advanced level.
- Carry out a well-motivated and relevant selection of theoretical foundation for the study.
- Select and motivate specific research methods for the study with a demonstrated understanding of the impact on the final results of the study.
- Collect relevant information for the study with a clear connection to selected theory and method. In a relevant way present the collected information in written format.
- Based on selected theory and method and in scientifically correct way analyze and draw conclusions concerning the selected research problem.
- Evaluate the scientific and practical relevance of the results.
- Perform written communication in a linguistically and scientifically correct manner
- Orally communicate the results of the study both to scholars in the area as well as to individuals without specific knowledge in the area.
- Defend the results
- Critically evaluate other studies in a constructive and scientific manner.

## Contents

The student will have to

- specify the subject for the project, methods of working, problem identification etc. in a written memorandum
- write a thesis which is presented and defended at a seminar
- act as an opponent on another degree project

## Realization

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

The work should be carried out independently, but with support from tutoring and seminars. The work should be presented in writing and defended orally at a seminar. Opposition includes presentation of the work being opposed. The thesis is presented and discussed at project seminars.

Teaching is in English and on Internet for distance students or at campus for the students living here. IT support: Learning management system, video conference system, e-mail.

## 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 as follows:

- Participation in seminars, 2hp (U, G#)
- Opposition, 2hp (U, G#)
- Oral presentation, 2hp (U, G#)
- Written report, 24hp (U, G, VG\*)

In the written report the student shall demonstrate the ability to:

- Develop and formulate a relevant research problem from a selected subject in the area of information security.
- Utilize scientific studies and judge their relevance for selected problem.
- Manage different, and differences between, theoretical areas at an advanced level.
- Demonstrate a well-motivated and relevant selection of theoretical foundation for the study.
- Select and motivate specific research methods for the study with a demonstrated understanding of impact on final result of the study.
- Collect relevant information for the study with a clear connection to selected theory and method.
- In a relevant way present the collected information in written format.
- Based on the selected theory and methods and in scientifically correct way analyse and draw conclusions concerning the selected research problem.
- Evaluate the scientific and practical relevance of the results.
- Perform written communication in a linguistically and scientifically correct manner.

In the oral presentation and opposition the student shall demonstrate the ability to:

- Orally communicate the results of the study both to scholars in the area as well as to individuals without specific knowledge in the area.
- Defend the results

In the opposition the student shall demonstrate the ability to:

- Critically evaluate other studies in a constructive and scientific manner.

In participation in seminars, the student shall:

- Actively engage in discussion by analysing and commenting orally and in writing on a subset of a degree project.

To pass the course the student shall participate in compulsory meetings and a total of four compulsory seminars, one for presentation and defence, one as opponent and two other seminars as decided by the supervisor. To pass the course further requires e-publishing of the thesis in accordance with the rules of LTU and that the thesis is completed no later than 12 calendar months after the course has formally ended. The student can however only utilize further supervision 6 calendar months after the course has formally ended.

Grades are given according to the scale: U, G, VG.

## 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 PC, microphone, Web cam and permission to install software. Internet connection (minimum 0,5 Mbps).

## 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 *	24	Mandatory	A10	Yes
0003	Opposition	U G#	2	Mandatory	A10	
0004	Oral presentation	U G#	2	Mandatory	A10	
0005	Seminars	U G#	2	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 Robert Brännström 2023-02-15

## Syllabus established

by nstitutionen för industriell ekonomi och samhällsvetenskap 2007-12-17