

**SYLLABUS**

# **Information Security 7.5 credits A0004N**

**Informationssäkerhet**

**Course syllabus admitted: Autumn 2024 Sp 1 - Present**

**DECISION DATE  
2024-02-15**

# Information Security 7.5 credits A0004N

## Informationssäkerhet

### First cycle, A0004N

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

## 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 The course assumes basic knowledge of Computer Science or Systems Science, 60 ECTS: The course assumes basic knowledge of Computer Science or Systems Science, 60 ECTS: D0004N Database Systems I, D0005N Database Systems II, D0006N Objectoriented Analysis and Design, D0007N Objectoriented programming, D0019N Software Development with Java, D0020N Information Systems Development, I0005N IT-Design and Systems Thinking, D0006N Design of IT or equal courses. Good knowledge in English, equivalent to English 6.

## Selection

The selection is based on 1-165 credits.

## Course Aim

Upon completion of the course, the student will be able to:

1. Analyse central concepts and how they relate to each other in the field of information security.
2. Apply and use the generic model in information security operations.
3. Evaluate and analyse critical information recourses.
4. Describe and analyse threats and possible inner and outside attacks on information recourses.
5. Plan and, in some senses, construct protective measures against attacks.

## Contents

The course is an introduction to the multidisciplinary field of information security. The course will give the student the ability to understand fundamental principles of information security in organisations. The course covers a broad spectrum of information security activities and components to safeguard information systems. Examples are: security standards, risk management, planning for security, and designing information system security.

## Realization

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

During the course, the student work with exercises, individually or in a group, that cover the different themes within the course. In order to solve each exercise, the student must analyse the need for and application of various relevant methods and techniques in information security. The course material covers basic concepts and theories within information security as well as their significance and scope. The exercises are supported by introductory lectures based on the underlying theories, and during the lessons, appropriate approaches and solutions are proposed and discussed.

Teaching is in English. During the course, distance students communicate with classmates and teachers via e-mail, video conferencing and an online student platform. The student platform is used by all students to download course materials, information and assignments.

For students on campus there will be meetings and examination 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. The course is examined as follows:

- Individual and group assignments relating to the course aims 2-5, 2.5hp (U, G#)
- Individual written exam relating to all of the course aims, 5hp (U, G, VG\*)

In order for a student to obtain the grade VG on the whole course, the grade G must be achieved in the individual/group assignments, and the grade VG in the individual written exam.

To obtain the grade G on the whole course, the grade G must be obtained in the individual/group assignments, and in the individual written exam.

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

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 with Windows XP, 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
0004	Individual tasks and group work	U G VG *	5	Mandatory	A24	
0005	Written exam	U G VG *	2.5	Mandatory	A24	

## 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 Institutionen för industriell ekonomi och samhällsvetenskap 2007-02-08