

## **Perspectives on Security and IT**

Perspektiv på säkerhet och IT

7.5 credits

Programme course

725G98

Valid from: 2023 Spring semester

|  |  |                                       |
|--|--|---------------------------------------|
| <b>Determined by</b>   | <b>Main field of study</b>                   |                                       |
| Course and Programme Syllabus Board<br>at the Faculty of Arts and Sciences | Information Systems                          |                                       |
| <b>Date determined</b>   | <b>Course level</b>                          | <b>Progressive<br/>specialisation</b> |
| 2018-03-20   | First cycle                                  | G1N                                   |
| <b>Revised by</b>  | <b>Disciplinary domain</b>                   |                                       |
| Course and Programme Syllabus Board<br>at the Faculty of Arts and Sciences | Technology                                   |                                       |
| <b>Revision date</b>   | <b>Subject group</b>                         |                                       |
| 2022-01-14; 2022-06-15   | Informatics/Computer and Systems<br>Sciences |                                       |
| <b>Offered first time</b>  | <b>Offered for the last time</b>             |                                       |
| Spring semester 2018   |  |                                       |
| <b>Department</b>  | <b>Replaced by</b>                           |                                       |
| Institutionen för ekonomisk och<br>industriell utveckling                  |  |                                       |

## Course offered for

- Bachelor´s programme in Information Systems Analysis

## Entry requirements

General entry requirements for undergraduate studies  
and

Social Studies and Mathematics corresponding to the level in Swedish upper  
secondary education (Samhällskunskap 1b or 1a1 and 1a2 and Matematik  
2a/2b/2c or Matematik B)

## Intended learning outcomes

On completion of the course, the student should be able to:

- describe and explain basic definitions, concepts, and security principles for information systems, from both a technical and an operational perspective
- identify and analyze security risks, vulnerabilities and problem areas for information systems, from a technical, organizational, ethical, societal, and sustainability perspective
- analyze, evaluate and problematize security solutions and their possible consequences from different perspectives

## Course content

The course focuses on business-oriented information security, highlighting information security from a technical, organizational, and societal perspective.

The main content of the course includes:

- Basic definitions, concepts, and perspectives on security and information Technology (IT)
- Vulnerabilities in information systems
- Basic principles of security from a technical perspective, e.g., security-enhancing techniques, malicious software, etc
- IT security from a social perspective, e.g., individuals' attitudes towards security, integrity, rules and trust
- IT security from an organizational and management perspective, e.g., legal and juridical aspects, routines, responsibilities, protection and classification of data/information, policies and strategies.
- IT security from a societal and ethical perspective, as well as a sustainability perspective, e.g. consequences of risks and vulnerabilities in information systems for society
- Security assessment, e.g. risk and vulnerability analyses

## Teaching and working methods

The teaching consists of lectures, seminars and project work in the form of workshops with the lecturer's supervision. In addition, the student should engage in self-study.

## Examination

The course is examined through

- group project assignment, grading scale: UG
- individual written assignment, grading scale: UV

For a final grade of Pass, at least Pass is required in all sections. For Well passed, a Well passed is required in both written project group report and the individual written exam.

Detailed information can be found in the study guide.

If special circumstances prevail, and if it is possible with consideration of the nature of the compulsory component, the examiner may decide to replace the compulsory component with another equivalent component.

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it.

If the coordinator has recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

An examiner may also decide that an adapted examination or alternative form of examination if the examiner assessed that special circumstances prevail, and the examiner assesses that it is possible while maintaining the objectives of the course.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

## Grades

Three-grade scale, U, G, VG

## Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

The course is conducted in such a way that there are equal opportunities with regard to sex, transgender identity or expression, ethnicity, religion or other belief, disability, sexual orientation and age.

If special circumstances prevail, the vice-chancellor may in a special decision specify the preconditions for temporary deviations from this course syllabus, and delegate the right to take such decisions.