COURSE SYLLABUS
Cybersecurity Overview, 7.5 credits

Översiktskurs cybersäkerhet, 7,5 högskolepoäng

Course Code:	TCSR24	**Education Cycle:**	Second-cycle level
Confirmed by:	Dean Mar 1, 2024	**Disciplinary domain:**	Technology
Revised by:	Director of Education May 2, 2024	**Subject group:**	DT1
Valid From:	Aug 1, 2024	**Specialised in:**	A1N
Version:	2	**Main field of study:**	Computer Science

Intended Learning Outcomes (ILO)

After a successful course, the student shall:

Knowledge and understanding
- display knowledge of the overall subject of cybersecurity and related areas
- display knowledge of the definitions, terminology, and concepts of cybersecurity
- demonstrate comprehension of activities in the risk management process
- display knowledge of threats and countermeasures

Skills and abilities
- demonstrate the ability to explain similarities and differences between cybersecurity concepts

Judgement and approach
- demonstrate the ability to suggest risk treatment
- demonstrate the ability to perform a risk assessment

Contents

The course is intended to give a holistic view of the area of cybersecurity, and its relation to other subject areas, such as information security and privacy. An overview of general and industry-specific standards and frameworks within the area is given as a frame of reference. In addition, the course will present how to work with security in practice by giving an outline of information security management and its associated activities, such as risk assessment and information classification.

The course includes the following elements:
- Overview of the cyber and information security area: Focus on definitions, concepts, and terminology
- Standards and frameworks within the area
- Cybersecurity in a socio-technical context
- Activities in the management of cybersecurity, e.g., risk assessment

Type of instruction

The teaching in the course consists mainly of lectures, assignments, tutoring, and seminars.

The teaching is conducted in English.

Prerequisites

The applicant must hold a minimum of a bachelor's degree (i.e., the equivalent of 180 ECTS credits at an accredited university) with at least 90 credits in Computer Science, Informatics, Information Systems, Computer Engineering, or the equivalent. Proof of English proficiency is required.

Examination and grades

The course is graded 5,4,3 or Fail.

Registration of examination:

Name of the Test	Value	Grading
Examination[1]	5 credits	5/4/3/U
Assignment	2.5 credits	U/G

[1] Determines the final grade of the course, which is issued only when all course units have been passed.

Course literature

The literature list for the course will be provided eight weeks before the course starts.

Title: ISC2 CISSP Certified Information Systems Security Professional Official Study Guide, 10th Edition
Author: Mike Chapple, James Michael Stewart, Darril Gibson
Publisher: Wiley
ISBN: 978-1-394-25469-9