DD2394 Cybersecurity Project 1.5 credits

Projekt i cybersäkerhet

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

The official course syllabus is valid from the autumn semester 2022 in accordance with the decision from the head of school: J-2021-2007.Decision date: 14/10/2021

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Computer Science and Engineering

Specific prerequisites

Knowledge in computer security, 6 higher education credits, equivalent to completed course DD2395.

Active participation in a course offering where the final examination is not yet reported in LADOK is considered equivalent to completion of the course.

Being registered for a course counts as active participation.

The term 'final examination' encompasses both the regular examination and the first re-examination.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After passing the course, the student shall be able to

- analyse simple program code and systems (based on given or self-made system descriptions) to identify vulnerabilities and predict corresponding threats
- select countermeasures against identified threats and argue for their suitability
- apply countermeasures
- find and use documentation of security related problems and tools
- present and explain their reasoning to others,

in order to

- be able to develop software and computer system with security in mind
- be able to move on and specialise in the cybersecurity area
- assess the difficulty of a security problem in relation to their own ability to decide when they can handle it alone and when they need to consult an expert.

Course contents

In this course, the students apply their knowledge and skills in cybersecurity on concrete scenarios and systems. In a smaller group project, the students practice systems analysis, design, development and assessment of solutions from a security perspective through problem-based learning.

Examination

- PRO1 - Project work, 1.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.