



FDD3344 Privacy- Enhancing Technologies 7.5 credits

Integritetsskyddande teknologier

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

Establishment

Grading scale

G

Education cycle

Third cycle

Specific prerequisites

This course is for PhD students in Computer Science or related subjects.

Language of instruction

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

Intended learning outcomes

The students should be able to:

- recognize threats to privacy

- explain the basic privacy terminology and concepts and use them correctly
- find and apply documentation of privacy-related problems and technologies
- get an overview of existing privacy-enhancing technologies (PETs)
- analyze system PET descriptions in terms of their privacy protection and how they work
- identify vulnerabilities of system descriptions and predict their corresponding threats
- select counter-measures to identified threats and argue their effectiveness
- compare counter-measures and evaluate their side-effects
- present and explain their reasoning to others

such that the students can:

- reason about privacy in general and PETs in particular and
- incorporate existing PETs into their research or start developing new ones.

Course contents

- Legal context for privacy in Europe
- Fundamental privacy terminology and concepts
- A range of privacy-enhancing technologies (PETs)

Disposition

The course takes place as a series of day-long meetings at different locations, such as KTH, KAU, and Chalmers. Each meeting will have student presentations, discussions, and lectures.

Course literature

The reading list will be available on the course website and will be amended as the course proceeds.

Examination

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.

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

Other requirements for final grade

The grading is pass/fail. To pass the course, the students successfully complete the following tasks.

Do assigned reading

Select a topic

Suggest a relevant reading list for the other participants

Present the selected topic

Lead a discussion on the selected topic

Hand in a written assignment

Participate in at least 80% of the meetings, preferably in person

Missed meetings can be made up by a written report on the meeting topics.

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.