

# Security and Privacy

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## **Summary:**

Aim of the course "Security and Privacy" is to give an introduction to current problems of these two areas, and how they can be solved through technological means, e.g. secure software development. The technological, legal, and society limitations of these approaches are discussed as well. Students will be introduced to the foundations of these topics through lectures. Based on these, current research and developments are presented and explained. The course encompasses for example website security, the EU privacy framework, data retention and online searches.

## **Content (1 Semester-hour lecture):**

Day 1: Lecture on computer security basics

Day 2: Lecture on secure software development and website security

Day 3: Lecture on special issues (one topic chosen by participants):

- Cryptography
- Computer forensics
- Threats for computers and networks

Day 4: Lecture on the European privacy framework

Day 5: Lecture on current developments: Data retention, online searches

Each lecture is set for a duration of two full hours.

## **Examination:**

Participants will prepare seminary papers on topics related to the course. These will be handed in, published on the web, discussed by all participants, and graded by the lecturer.

## **Basic knowledge required by participants:**

General computer science and software development background

## **Literature, software and other material:**

A CD-ROM with all the slides is provided for the participants free of charge.