

2DV702

Internet Security

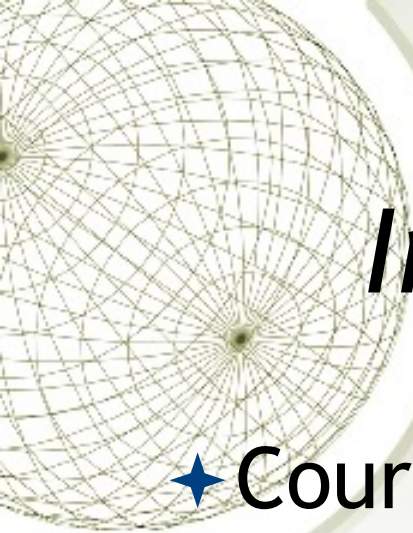
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Introduction and overview

- ★ Course philosophy and goals
- ★ High-level overview of topics
- ★ Course organization and information



Staff

- ★ Ola Flygt, lecturer
- ★ Hemant Ghayvat, lecturer
- ★ Paolo Molinaro, teaching assistant
- ★ Contact information found in *MyMoodle*



Course webpage

In MyMoodle

Starting point. From here you find links to the Time table, lecture notes etc.

- ✦ Slides will be posted for convenience, but no substitute for attending lecture and reading the textbook
- ✦ Assignments distributed in MyMoodle
- ✦ Check often for announcements and changes in the schedule and the Moodle room and on Slack



Textbook

- ★ We will primarily use one textbook:
 - ★ Stallings, W. Cryptography and Network Security - Principles and Practice eighth edition global edition, 2022

You could use (with some limitations)

- ★ “Stallings, W Network Security Essentials: Applications and Standards, Global Edition, 6/E, 2016



Other readings

- ★ Will be linked from MyMoodle
- ★ Material from these readings is fair game for the exams, even if not covered in class
- ★ Please suggest other readings or relevant news articles!



Course content

- ★ Security introduction
- ★ Cryptography
 - ★ 0-, 1- and 2-key algorithms
- ★ Key management and Distribution
- ★ User Authentication
- ★ Transport-Level Security
- ★ Network Access Control (wireless)
- ★ Electronic Mail Security



Course content, cont.

- ★ IP Security
- ★ Network Endpoint Security
 - ★ Malicious Software
 - ★ Intruders
 - ★ Firewalls
- ★ Cloud Security
- ★ IoT Security
- ★ Payment Security (not in the textbook)



Course requirements

★ Practical work

★ One pre-assignment

★ Check MyMoodle now!

★ Four assignments

★ Details about these to come...

★ At the end of the course there will be a written campus exam



Course Communication

- ★ Lectures on campus, please come to lectures, be active and ask questions!
- ★ TA sessions, again come to them and use the time to work and interact with the TA and other students!
- ★ Other communication mainly through the course Slack channel