

Oechslin Philippe, Vau	idenay Serge			
Cursus	Sem.	Туре	Language of	English
Cyber security minor	E	Opt.	teaching	LIIGIISII
Cybersecurity	MA2, MA4	Opt.	Credits Session	3 Summe
Data Science	MA2, MA4	Opt.	Semester	Summe
SC master EPFL	MA2, MA4	Opt.	Exam	During t
			Workload	90h
			Weeks	14
			Hours	2 weekl
			Courses	2 weekl
			Number of positions	

Summary

This seminar introduces the participants to the current trends, problems, and methods in the area of communication security.

Content

We will look at today's most popular security protocols and new kinds of protocols, techniques, and problems that will play an emerging role in the future. Also, the seminar will cover methods to model and analyze such security protocols. This course will be held as a seminar, in which the students actively participate. The talks will be assigned in the first meeting to teams of students, and each team will have to give a 45 minutes talk, react to other students' questions, and write a 3-4 pages summary of their talk.

Keywords

network security, security protocols, cryptography

Learning Prerequisites

Required courses

- Computer security (COM-301)
- Cryptography and security (COM-401)

Learning Outcomes

By the end of the course, the student must be able to:

- Synthesize some existing work on a security protocol
- Analyze a security protocol
- Present a lecture

Transversal skills

- Make an oral presentation.
- Summarize an article or a technical report.

Expected student activities



- prepare a lecture (presentation and a 4-page report)
- present the lecture
- attend to others' lectures and grade them
- do the final exam

Assessment methods

- lecture and attendance to others' lectures (50%)
- final exam (50%)

Supervision

Others

Lecturers and assistants are available upon appointment.