

CS-800

Lattice-based Cryptography

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Cursus	Sem.	Type
Computer and Communication Sciences		Opt.

Language of teaching	English
Credits	1
Session	
Exam	Project report
Workload	30h
Hours	30
Courses	24
TP	6
Number of positions	30

Frequency

Only this year

RemarkJuly 7-11, 2025. Registration via <https://lattice-school.epfl.ch/>**Summary**

This course provides a comprehensive overview of lattice-based cryptography, ranging from hash functions, signatures, proof systems, public-key encryption all the way to fully homomorphic encryption and obfuscation, with a theoretical overview together with concrete considerations.

Content**Note**

July 7-11, 9am to 5pm

Registration via: lattice-school.epfl.ch**Keywords**

Lattices, post-quantum, cryptography, security, privacy

Resources**Moodle Link**

- <https://go.epfl.ch/CS-800>