

UE Advanced security



Level
Baccalaureate
+5



ECTS
6 credits



Component
UFR IM2AG
(informatique,
mathématiques
et
mathématiques
appliquées)



Semester
Automne

- > **Teaching language(s):** English
- > **Teaching method:** In person
- > **Teaching type:** Lectures
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** GBX9SY06

Presentation

Description

The advanced security module proposes to investigate deeper certain topics in security which include privacy models (k-anonymity, differential privacy and privacy by design), secure data structures (hash chain, Merkle's tree), (in)secure communication protocols (WEP and WPA protocols) and anti-viruses. The module focuses on several case study on privacy enhancing technologies (PETs), blockchain (along with an overview of cryptocurrencies), wireless attacks with scapy, malware detection using YARA and ClamAV.

Course parts

| | | |
|----|----------------|-----|
| CM | Lectures (CM) | 24h |
| TD | Tutorials (TD) | 24h |

Period : Semester 9

Skills

Useful info

Contacts

Program director

Cedric Lauradoux

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Place

➤ [Grenoble](#)

Campus

➤ [Grenoble - University campus](#)