

UE Advanced security



Baccalaureate +5



ECTS 6 credits



Component UFR IM2AG (informatique, mathématiques et mathématiques appliquées)



Semester Automne

Teaching language(s): EnglishTeaching method: In personTeaching type: Lectures

Open to exchange students: YesCode 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





PYTHON,C et Cryptographic engineering

Useful info

Contacts

Program director

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Place

> Grenoble

Campus

> Grenoble - University campus

