

EIIN945	Security and Privacy 3.0	CM 10h	TD 19h	HNE 21h
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Cours proposé dans la mineure / *Course offered in the minor* :

AL	CyberSec	IA-ID	IHM	IoT-CPS	Ubinet	IF	M1 EIT DSC	M2 EIT DSC	M2 Fintech
	x							x	x

Responsable / *In charge of* : **Boudaoud Karima** (Karima.BOUDAOUUD@univ-cotedazur.fr)

Résumé / *Abstract* :

This course is divided in two parts. The first part focus on data privacy, more specifically on the legal aspects (particularly GDPR), the Privacy by Design concept and Smarthphones and IoT privacy issues. After understanding the legal aspects and the privacy issues, the second part will focus on the design of secure software applications in general but also mobile applications (more specifically Android) . The course session includes lectures and Labs.

Prérequis / *Prerequisite* :

- Cryptography
- Security properties
- Java

Objectifs / *Objectives* :

- Understand legal aspects regarding data privacy
- Be aware about data privacy issues
- Learn how to design secure software applications that ensure data privacy

Contenu / *Contents* :

- GDPR and Privacy by design concept
- Data privacy issues
- Security of software applications
- Security of mobile applications

Références / *References* :

- Bruce Schneier: Secret and Lies, Digital Securty in a Networked World, John Wiley & Sons, 2000.
- Charles Pfleeger: Security in Computing, Third Edition, Prentice Hall International
- G. McGraw, E. Felten: Securing Java, John Wileys & Sons
- Ross Anderson: Security Engineering, John Wiley & Sons

Acquis / *Knowledge* :

- Designing secure software applications
- Designing secure mobile applications

Evaluation / *Assessment* :

- Exam: 50%
- Lab: 50%