

IT security risks



SCHOOL

Polytech Graduate School of Engineering



CAMPUS

Belle-Beille



LEVEL

Engineering 5th year



OPEN TO EXCHANGE STUDENTS

Yes



SEMESTER

Fall (S1)

> **Degree course:** Graduate School of Engineering - Automation and Computer Engineering

> **Teaching unit:** UE 9.4.3 Cyber security

> **Course language:** English

> **Duration (hours):** 32

> **ECTS:** 2

> **Teacher(s):** Alain Godon

> **Assessment:**

Continuous assessment

Final exam

> **Teaching methods:**

Lecture course hours

Tutorial course hours

Practical work 32 hours

Case study

Project

COURSE DESCRIPTION

IT Risks : CTO and RSSI (fr)

- Programming best practices and main security flaw (top 10 OWASP) - Ethical Hacking (white hat)
- IT response plan and data protection
- Authenticate, Authorize, Accounting (AAA)
- Legal aspects and laws.
- RGPD (fr)
- Data Backup.
- IT Governance
- OSINT

OBJECTIVES

This course is a follow up about IT security 4A SAGI with a deep focus on concept such as software and hardware firewall and by managing IT security risk in accordance with the latest standards. It will emphasis all aspect about cyber security threats and ways to protect professional as well as personal data.

PREREQUISITES

Cyber security (UE 7.4)

SELECTIVE BIBLIOGRAPHY

https://en.wikipedia.org/wiki/Internet_security