

UE Software security, secure programming and computer forensics





Component
UFR IM2AG
(informatique,
mathématiques
et
mathématiques
appliquées)



> Teaching language(s): English

> Dual language: Full english

> Teaching method: In person

> Teaching type: Conference and seminars

> Open to exchange students: Yes

> Code d'export Apogée: GBX9SY01

Presentation

Description

The goal of this course is to enable students to acquire the following concepts:

- know how to identify the strengths/weaknesses of a programming language from the point of view of security;
- know the main causes and consequences of the usual software vulnerabilities
- know the protection mechanisms provided by the compilers, by the OS understand the main techniques of code analysis for security (their interests, their limits)





Course parts

CM Lectures (CM) 19,5h

TP Practical work (TP) 19,5h

Recommended prerequisites

Programming, compilation

Period: Semester 9

Skills

Knowledge of the operating mechanisms of a program; protection techniques (at the level of code, compiler, execution platform); tools for analysing code for security;

Bibliography

Writing Secure Codes" (M. Howard and D. LeBlanc, MicroSoft)

Useful info

Contacts

Program director

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Place

> Grenoble

Campus

> Grenoble - University campus





Know more

' http://www-verimag.imag.fr/~mounier/Enseignement/Software_Security/

