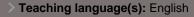# UE Academic and industrial challenges

Level
Baccalaureate +5

ECTS
3 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:** GBX9CO09

Presentation

Description

This course offers the possibility for the students to gain some experience by facing open/difficult combinatorial problems.

The goal is to model and solve a combinatorial problem with direct industrial applications. We expect the students to take a variety of approaches (local search, compact/extended linear programming formulations, constraint programming, ...) and establish useful results (lower bounds, cuts, complexity,...).

The experimental results will be compared to the litterature (a known academic open benchmark will be available in this case) or will be validated by the industrial partner.

Course parts

CM	Lectures (CM)	18h

Period : Semester 9

Useful info

Contacts

Program director

Hadrien Cambazard

✉ hadrien.cambazard@grenoble-inp.fr

Program director

Nicolas Catusse

✉ nicolas.catusse@grenoble-inp.fr

Place

> Grenoble

Campus

> Grenoble - University campus

Non-contractual information.
Last update on 11 October 2023