Industrial challenge

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 9.4.1 Voie d'approfondissement systèmes cyber physiques
> **Course language:** English
> **Duration (hours):** 16
> **ECTS:** 1
> **Teacher(s):** Laurent Autrique

> **Assessment:**

- [x] Continuous assessment
- [ ] Final exam

> **Teaching methods:**

☐ Lecture course		hours	☐ Case study
☐ Tutorial course		hours	☐ Project
☒ Practical work	16	hours	

COURSE DESCRİPTİON

Each year, the educational team discusses with an industrial partner to define the challenge scope. The calendar can be as follows for students enrolled in a school year n to n+1:

- March n to June n: choice of industrial partner, research of a problem, writing of specifications, development of calendar
- October n: visit of the company, presentation by the industrial partner of the subject to the students, round table.
- November n: personal work of students
- December n: challenge in configuration 2 8-hour days with dedicated equipment.

OBJECTİVES

Provide students with a context where an industrial partner of the SAGI department submits a complex concrete problem. Students must then work as a team to provide one or more solutions based on their skills. One of the specificities of this challenge lies in the appropriation and then the resolution of a concrete subject in a limited time. One of the objectives is thus to increase their employment potential in a situation where the engineer must seek his knowledge to respond quickly to a client.

PREREQUİSİTES

All the courses related to "cyber physical systems"

SELECTİVE BİBLİOGRAPHY

Provided for each challenge by the industrial partner and the educational team in order to be able to suggest lines of thought in order to resolve the problematic of the challenge.