Innovation

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 9.2 Sciences de l'ingénieur
> **Course language:** English
> **Duration (hours):** 20
> **ECTS:** 2
> **Teacher(s):** Sébastien Lahaye

> **Assessment:**
[X] Continuous assessment
[ ] Final exam

> **Teaching methods:**

	hours	
[X] Lecture course	4	[ ] Case study
[ ] Tutorial course		[ ] Project
[X] Practical work	16	

COURSE DESCRİPTİON

1. Introduction to SCADA systems
- - Brief history and definition
- - Place and role inside the production monitoring and control system
- - Anatomy of a SCADA system
- - Software solution and protocols

2. Design of SCADA software using commercial packages

- - General principles
- - Design of graphic interfaces and animation of graphic depictions
- - Implementation of embedded programs
- - Communications with automated systems
- - Loggings
- - Deployment and administration

OBJECTİVES

Prepare students to become a privileged interlocutor, or even a member, of an automation engineering and design office, able to interact with other offices, suppliers and/or customers.

PREREQUİSİTES

Industrial Automation (UE5-3), Industrial Networks (UE7-3), or equivalent