UE Internship

ECTS
24 crédits

Composante
UFR PhITEM
(physique,
ingénierie, terre,
environnement,
mécanique)

Période de l'année
Printemps (janv.
à avril/mai)

> **Langue(s) d'enseignement:** Français

> **Ouvert aux étudiants en échange:** Non

> **Code d'export Apogée:** PASCXTAA

Présentation

Description

The five months internship can be carried out on various topics and in different industries or research labs. The topics are mostly centered on modeling and control applications, with some contributions in supervision, algorithms and integrated process design. The network aspects, while not directly reflected in the internships titles, appear implicitly as necessary issues in the automation setups. The control implementations range from classical PID or logical setups in industrial automata to advanced model-based optimal or robust feedback strategies.

It can be noted that most students find internships in large industries but a significant number are enrolled in SME and research labs. This motivates the importance of entrepreneurial and research skills in addition to the classical industrial ones. The collaborative internships between academic research labs and industries contribute to the transfer of knowledge between university and industry and is thus strongly encouraged. The variety of industrial markets addressed appears to be a direct consequence of the need for automation in all high-tech processes with strong efficiency needs. From the education point of view, it highlights the importance of a multidisciplinary approach to engineering problems in the process modeling and control design phases.

Objectifs

Période : Semestre 10

Infos pratiques

Lieu(x) ville

> Grenoble

Campus

> Grenoble - Polygone scientifique