

Mechatronic project

 **ECTS**
4 credits

 **Number of hours**
60h

Presentation

Objectives

At the end of this module, the student will have understood and be able to explain :

- Power and information channels of mechatronic systems
- The place of system simulation activities in the design cycle (V design cycle) of complex systems
- The principle of data acquisition with computers.

The student will be able to :

- Establish models suitable for various engineering tasks during the design of mechatronic systems
- Implement models in a system simulation environment and perform validation and verification tasks associated to the V design cycle
- Specify and conduct model-in-the-loop and software-in-the-loop activities for a complex system
- Design the different elements of a simple data acquisition system
- Implement a graphical programming language dedicated to the acquisition (LabVIEW)

- Perform a security analysis
- Perform a lifecycle analysis with a dedicated software

Useful info

Contacts

Education manager

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