

Mechanical Engineering Project I**ME-401 Mechanical Engineering Project I**

Various Professors

Program: Mechanical Engineering (MA1, MA2, MA3, MA4)

Type: Mandatory

Language of Instruction:	French / English
Credits:	10
Withdrawal:	Not permitted after the registration deadline
Session:	Winter, Summer
Semester:	Autumn
Exam:	During the semester
Workload:	300 hours
Weeks:	14
Weekly Hours:	10
Project:	10

Summary:

The student applies the skills acquired in an academic or technical scientific project.

Content:

During this project, students will use the skills they have acquired to independently tackle a scientific problem. The topics for these projects are chosen from among the research and development activities of one of the laboratories at the Institute of Mechanical Engineering. The lists of projects can be consulted on the laboratories' website or that of the Mechanical Engineering Department.

As part of this project, it is also possible to participate in interdisciplinary projects, provided that the topic has been defined in collaboration with a professor or lecturer from the department and that the work is carried out individually.

Keywords:

Application, Communication.

Learning Outcomes:

- Apply scientific, technical, and organizational skills in a research project.

Transversal Skills:

- Access and evaluate appropriate information sources.
- Write a scientific or technical report.
- Write a literature review establishing the state of the art.
- Collect data.
- Compare progress with the plan and adapt accordingly.
- Use an appropriate work methodology, organize one's work.
- Communicate effectively and be understood, including by people of different languages and cultures.
- Evaluate one's own performance in a group, receive feedback, and respond appropriately.

Teaching Method:

Guided personal work in laboratory and project rooms.

Assessment Method:

Written report to be submitted no later than the Friday of the first week after the end of teaching (for spring projects), and no later than the Friday of the second week after the end of teaching (for autumn projects).