

Master's Project in Mechanical Engineering

ME-599 Master's Project in Mechanical Engineering

Various Professors

Program: Mechanical Engineering (PME, PMH)

Type: Mandatory

Language of Instruction: **French / English**

Credits: **30**

Session: **Winter, Summer**

Semester: **Autumn**

Exam: **Oral**

Workload: **900 hours**

Weeks: **-**

Summary:

The student applies the skills acquired in a research project (lasting 17 weeks at EPFL or 25 weeks at another university) or in an industrial project (25 weeks).

Content:

Students are tasked with carrying out a mechanical engineering project that integrates several aspects of mechanical engineering. This project allows them to put into practice, through concrete problems, both domain-specific and transversal skills acquired during their studies.

Projects are listed on the websites of IGM laboratories or other laboratories approved by the SGM. They may also be carried out in industry, provided a collaboration with a laboratory exists or is established.

Learning Outcomes:

- Apply scientific, technical, and organizational skills acquired during the studies in a research project.

Transversal Skills:

- Communicate effectively and be understood, including by people from different languages and cultures.
- Write a literature review establishing the state of the art.
- Summarize an article or technical report.
- Compare progress with the plan and adapt accordingly.
- Collect data.
- Access and evaluate appropriate information sources.

Expected work:

Written report, presentation, and poster.

Assessment Method:

Oral defense of the written report.