

MICRO-580

**Robotics project I**

Profs divers \*

<b>Cursus</b>	<b>Sem.</b>	<b>Type</b>
Robotics	MA1, MA2, MA3, MA4	Obl.

Language of teaching	English
Credits	10
Withdrawal Session	Unauthorized Winter, Summer
Semester Exam	Fall During the semester
Workload	300h
Weeks	14
<b>Hours</b>	<b>10 weekly</b>
Project	10 weekly
<b>Number of positions</b>	

**It is not allowed to withdraw from this subject after the registration deadline.**

**Summary**

The student applies the acquired skills in an engineering or a research project.

**Content**

Students are asked to run an engineering or a research project integrating several robotics aspects. This project allows them to practice and improve their skills on concrete problems related to robotics, and experience a project environment in a laboratory, making the connection to research or industry.

**Learning Outcomes**

By the end of the course, the student must be able to:

- Develop an individual research or industrial project
- Apply skills to a specific subject
- Manage the project
- Assess / Evaluate the results
- Compose a written scientific report of a project
- Present a project orally for a scientific audience
- Develop expertise in a specific research area
- Represent data in a consistent and effective manner

**Transversal skills**

- Write a scientific or technical report.
- Write a literature review which assesses the state of the art.
- Set objectives and design an action plan to reach those objectives.
- Use a work methodology appropriate to the task.
- Communicate effectively, being understood, including across different languages and cultures.
- Assess progress against the plan, and adapt the plan as appropriate.
- Give feedback (critique) in an appropriate fashion.
- Access and evaluate appropriate sources of information.

### **Assessment methods**

Written report and oral presentation

### **Resources**

#### **Websites**

- <https://sti.epfl.ch/smt/smt-semester-project-guidelines/>