MICRO-427	Robotics	for	society
	RODOLICS		Society

Bouri Mohamed

Cursus	Sem.	Туре	Contact	English
Managmt, dur et tech	MA1	Obl.	language	Linglish
			Credits	4
			Session	Winter
			Semester	Fall
			Exam	Written
			Workload	120h
			Weeks	14
			Hours	4 weekly
			Lecture	2 weekly
			Project	2 weekly
			Number of positions	

Summary

This project based course addresses the topics of robotics and manufacturing. The theoretical basics of robotics are introduced. Systems, specifications and performances are discussed to understand well the technology and the related applications of robotics and its applications.

Learning Prerequisites

Required courses Basics of mathematics and physics.

Learning Outcomes

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

- Classify industrial robotics and manufacturing solutions
- Define industrial robotics and manufacturing solutions
- Manage the requirements of a robotic platform
- Quantify the requirements of a robot
- · Specify the architecture of a robotic solution
- Construct the architecture of a robotic solution

Transversal skills

- Manage priorities.
- Take feedback (critique) and respond in an appropriate manner.
- Use both general and domain specific IT resources and tools
- Communicate effectively with professionals from other disciplines.

Teaching methods

courses, projects, exercises



Expected student activities

exercises projects in groups

Assessment methods

50 %: Written exam, December 22nd, 2022, Duration : 60 mins.
50 %: Group project (oral presentation , report and Q&A) - during the exam session, January, 2023.

Supervision

Office hours	Yes
Assistants	Yes
Forum	Yes

Resources

Moodle Link

• https://go.epfl.ch/MICRO-427