

MICRO-406 Products design & systems engineering

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Cursus	Sem.	Type
Microtechnics	MA1, MA3	Obl.

Language of English teaching Credits 10 Unauthorized Withdrawal Winter Session Semester Fall During the Exam semester Workload 300h Weeks 14 Hours 10 weekly 5 weekly Courses 5 weekly Project Number of positions

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

Summary

This course will cover all the aspects of product design and system engineering from learning relevant methods to the actual implementation in a hands-on practice of product development.

Content

The course will be sub-divided in lectures covering the various aspects of product designs (technical aspect such as system engeering, production engineering, quality control as well as organisational aspects such as project planning, including general knowledge about the structure of a company, IP, and innovations).

Keywords

Product desgin, project planning, system engineering, hands-on practice

Learning Outcomes

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

- · Design a product
- Elaborate a plan for an efficient product design cycle
- · Plan a prototype realization
- · Coordinate a team-work strategy

Transversal skills

- Chair a meeting to achieve a particular agenda, maximising participation.
- · Communicate effectively, being understood, including across different languages and cultures.
- Evaluate one's own performance in the team, receive and respond appropriately to feedback.
- Identify the different roles that are involved in well-functioning teams and assume different roles, including leadership roles

Assessment methods

The assessment will be based on three elements: a report, oral presentations as well as a final prototype.



Supervision

Office hours No
Assistants Yes
Forum Yes