

PENS-315

SKIL Student Kreativity and Innovation Laboratory

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Cursus	Sem.	Type
Projeter ensemble ENAC	BA6	Opt.

Language of teaching	English
Credits	4
Withdrawal	Unauthorized
Session	Summer
Semester	Spring
Exam	During the semester
Workload	120h
Weeks	12
Hours	4 weekly
Courses	1 weekly
Project	3 weekly

Number of positions

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

Summary

This course will allow students to engage in hands-on projects preferably defined by themselves, in a dedicated workshop environment. Students work together in small groups, with access to a wide range of tools, materials, software, etc. - assisted by highly specialized labmanagers.

Content

There is initially no predefined task or assignment. Students brain-storm, form groups, and decide between themselves and the teachers what they want to do, then plan the execution of the project. A lot of flexibility is provided for how the work should proceed, but the process typically includes: a brain-storming phase; a planning phase with definition of specific roles for each group member; an execution phase with continuous evaluation and adjustment of planning and strategy; and in the end a presentation of the project/results/products/methods developed - and the difficulties encountered. An interdisciplinary team of labmanagers and coaches will provide guidance for the teams. This is a unique opportunity to learn and experiment technologies and methods outside of the disciplinary domains.

Keywords

Project-based learning, Workshop, creativity, hands-on, group work, interdisciplinarity, technology, materials, transversal skills, planning

Learning Prerequisites**Required courses**

There is no special course requirement.

Anybody eligible for Projeter Ensemble can choose the SKIL experience.

Learning Outcomes

- Develop a project from idea to realization
- Specify the role of the team members with regards to team objective
- Define a plan to reach the goal
- Make a physical or numerical prototype

Transversal skills

- Set objectives and design an action plan to reach those objectives.
- Communicate effectively with professionals from other disciplines.
- Communicate effectively, being understood, including across different languages and cultures.
- Continue to work through difficulties or initial failure to find optimal solutions.
- Demonstrate a capacity for creativity.

Teaching methods

Personalized coaching in response to student needs and ideas.

Expected student activities

Hands-on realization, for example in the form of prototypes, models, or methods. Students are expected to explore project ideas that go beyond their discipline.

Assessment methods

Each group will present the story of their project and its results.
This presentation will be evaluated and graded at the end of the semester.
Student contribution will be partially evaluated individually

Supervision

Office hours	Yes
Assistants	No