

ENG-472(a)

**Project in energy management and sustainability I**

Profs divers \*

Cursus	Sem.	Type
Energy Management and Sustainability	MA1, MA3	Obl.

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

**Number of positions**

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

**Remark**

Only in MA1

**Summary**

The student must work in a team on multidisciplinary projects under the responsibility of a professor. This professor is in charge of guiding the student in developing the projects and acting as advisor to choose their electives in direct link with the topic of the project.

**Content**

During this project the student will employ the acquired skills to solve a practical problem. He will need to work with students having various bachelor backgrounds. The topics of these projects are chosen amongst the research and development activities of one of the laboratories affiliated to the Energy Management and Sustainability section. The lists of projects are available on the Web site of each of the laboratories of the Section. In the framework of this project it is possible to take part to an interdisciplinary project gathering students from other sections.

**Keywords**

Multidisciplinary project, Application, Team work.

**Learning Prerequisites****Recommended courses**

The professor proposing the project is in charge of validating the prerequisites of the students and helps the students to make the choice of elective courses related to the project.

**Learning Outcomes**

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

- Construct an original solution to new problem
- Develop a concept adapted to the specific problem
- Defend his solution

**Transversal skills**

- Assess progress against the plan, and adapt the plan as appropriate.
- Use a work methodology appropriate to the task.
- Write a scientific or technical report.
- Collect data.
- Resolve conflicts in ways that are productive for the task and the people concerned.
- Demonstrate a capacity for creativity.
- Communicate effectively, being understood, including across different languages and cultures.
- Communicate effectively with professionals from other disciplines.
- Evaluate one's own performance in the team, receive and respond appropriately to feedback.

### **Teaching methods**

Project-based teaching

### **Assessment methods**

The evaluation is done through two oral presentations and one written report as well as a presentation to all students in the class at the end of the semester.