MSE-490

# Research project in materials I

Profs divers *

| Cursus | Sem. | Type |
|---|---|---|
| Materials Science and Engineering | MA1, MA2, MA3, MA4 | Obl. |

| | |
|---|---|
| Language of teaching | English |
| Credits | 10 |
| Withdrawal | Unauthorized |
| Session | Winter, Summer |
| Semester | Fall |
| Exam | During the semester |
| Workload | 300h |
| Weeks | 14 |
| **Hours** | **10 weekly** |
| Practical work | 10 weekly |
| **Number of positions** | |

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

## Remark

This project can be taken in Autumn or Spring semester

## Summary

The student applies the acquired skills to an academic or industrial project.

## Content

The students are confronted with the realization of an engineering project integrating several aspects of Materials science. This project will allow them to apply, to concrete problems, skills of domain and transversal skills acquired during their studies. The projects are available on the web sites of IMX laboratories or other laboratories approved by SMX Section.

## Learning Outcomes

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

- Manage an individual research project
- Apply the comptences to a specific subject
- Design research
- Assess / Evaluate the results critically
- Compose the project in written form in a scientific report
- Expound the project in oral form for a scientific audience
- Develop expertise in a specific area of research
- Present data coherently and effectively

## Transversal skills

- Communicate effectively, being understood, including across different languages and cultures.
- Write a literature review which assesses the state of the art.
- Summarize an article or a technical report.

- Assess progress against the plan, and adapt the plan as appropriate.
- Collect data.
- Access and evaluate appropriate sources of information.

### Assessment methods

Continuous assessment (report)