Summary

The student carries out an academic or industrial research project. He/she has to display the knowledge and capability required for independent work in the field of Materials Science & Engineering.

Content

The Master thesis is a personal and original work covering theoretical and practical aspects of materials science using the knowledge of the student acquired during his/her studies and enable him/her to develop deeper knowledge, understanding, capabilities and attitudes in the field of materials science. This project is made under the supervision of a professor of the section of Materials Science and Engineering.

Learning Outcomes

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

• Formulate and deal with complex issues critically, indepently and creatively by applying a holistic view
• Plan and use adequate methods to conduct qualified tasks in given framwork
• Manage an individual research project
• Apply the competences to a specific subject
• Present data coherently and effectively
• Develop expertise in a specific area of 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

Transversal skills

• Set objectives and design an action plan to reach those objectives.
• Use a work methodology appropriate to the task.
• Communicate effectively, being understood, including across different languages and cultures.
• Assess progress against the plan, and adapt the plan as appropriate.
• Give feedback (critique) in an appropriate fashion.
• Take feedback (critique) and respond in an appropriate manner.
• Collect data.
• Access and evaluate appropriate sources of information.

Teaching methods
The student will have to write a report which will be evaluated by a jury. An oral defense will take place after submitting the report.