

Students are distributed over the available projects, with about 20 students per project. The projects are organized by a responsible university staff member and a number of supervisors. The project has a design component in addition to construction, modeling or measurements. There are weekly task descriptions for literature study, measurements, designs or simulations. Storing the data, making diagrams and simulations are carried out by computer.

- The students are divided in groups of 4 (or 3) and collaborate on the tasks related to the project. They meet weekly with the supervisors during a contact session (1 hour) in a meeting room of the department.
- There is a room in the faculty buildings and a timeslot where the students can work on the tasks in the project under supervision. Alternatively tasks may be carried out at home or in the PC-class rooms.
- Each student is responsible for one intermediate oral presentation and collaborates with the other group members on the final presentation. Each student is responsible for one intermediate report and collaborates with the other group members on the final report. The supervisors give feedback after the intermediate presentations and reports.
- Final report and final presentation in the additional week

Initial competences

Secondary school education

Final competences

- 1 Concepts: working collaboration in a group, scientific techniques, use of scientific language.
- 2 Use of software tools to make simulations and diagrams
- 3 Writing reports
- 4 Oral presentation

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Excursion, group work, lecture

Extra information on the teaching methods

- lectures: introduction, feedback
- online material: scientific methods and communication, written reports and oral presentation techniques
- project work
- company visit (participation required)

Learning materials and price

- Power Point presentations on project work and presentation techniques are available on the electronic learning platform.
- Background information for the specific projects is available on the electronic learning platform

References

Course content-related study coaching

Weekly supervision of the projects: 1 hour per week with presentations, discussions, question sessions; 2 hours per week with project work (opportunity to ask advice from the supervisors). Additional support on request

Evaluation methods

continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Examination methods in case of periodic evaluation during the second examination period

Examination methods in case of permanent evaluation

Written assessment, oral assessment, participation, assignment

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible in modified form

(Approved)

Extra information on the examination methods

During semester: graded project reports; graded oral presentations, graded project work, attendance on project sessions.

Calculation of the examination mark

Evaluation of the scientific work during the project work. One intermediate report per student, one intermediate presentation per student, one final report per group, one final presentation per group. Attendance of the project work sessions is required.