Course Specifications
Valid as from the academic year 2018-2019

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Offered in the following programmes in 2018-2019

Bachelor of Science in Engineering Technology (main subject Electromechanical Engineering Technology) 5 A

Bachelor of Science in Engineering Technology (main subject Electronics and ICT Engineering Technology) 5 A

Joint Section Bachelor of Science in Engineering Technology 5 A

Bachelor of Science in Industrial Design Engineering Technology 5 A

Teaching languages
Dutch

Keywords
CDIO, project work, written report, oral presentation

Position of the course
In this course you learn how to setup and execute a project in a team consisting of several students. You will report the outcome of the project both in a written report and by means of an oral presentation. Each student will participate in 2 projects.

Contents
Project work:
The projects are performed in a team (typically 5 students) by using the CDIO model. The students will learn how to brainstorm and realize technical solutions within the context of the project. Apart from acquiring technical knowledge students will also train their skills to demonstrate and to communicate to other people.

Lectures on communication skills:
• Communication session 1: Writing a report: First the students are introduced to communication principles. Next they learn how to create business emails, create a technical report (structure, referencing, correct grammar).
• Communication session 2: Preparing a presentation: In this session you will learn how to setup a good presentation based on your technical realization during the project work. The presentation is a team effort and focus is on the structure, generating strong powerpoint slides, correct use of language and body language.

Lecture on literature research (2h)
Lecture on durability and environmental awareness (2h)

Initial competences

Final competences
1. You can successfully run a project in a team, taking care of deadlines, durability and environmental issues and specific limitations (depending on the project).
2. You know how to gather scientific and technical information and how to use it.
3. You use software packages for technical drawings, graphs and calculations.
4. You know how to write a technical report.
5. You can give a good technical 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
Lecture, project

Extra information on the teaching methods
Lectures and project work

Learning materials and price
- Powerpoint presentations related to project work, writing and presenting available in Minerva.
- Background information available in Minerva.

References
See http://www.cdio.org

Course content-related study coaching
The project teams typically consist of 5 students. Each team has a technical mentor who is guiding the team.

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
Assignment, peer assessment, report

Possibilities of retake in case of permanent evaluation
Examination during the second examination period is not possible.

Extra information on the examination methods

Project semester 1:
- Intermediate written report evaluated on grammar.
- Final report evaluated on technical content, structure, references, grammar.
- Peer assessment in the project team.
- Product evaluation by the technical mentors.

Project semester 2:
- Final report evaluated on technical content, structure, references, grammar.
- Group presentation: evaluation of content, structure, spoken language and body language.
- Peer assessment of the presentations.
- Peer assessment by the team members.
- Evaluation of the final product by the technical mentors based on the predefined technical requirements.

Calculation of the examination mark

Project semester 1: 40%
- Written report (30% of the score in semester 1).
- Product and process (70% of the score in semester 1).
- Peer evaluation among the project team members. Results will be available in

(Approved)
Minerva.

**Project semester 2: 60%**
- Oral presentation (25% of the score in semester 2)
- Final written report (25% of the score in semester 2)
- Product and process (50% of the score in semester 2)
- Peer evaluation among the project team members. Results will be available in Minerva.