

Name Module	Electrical Engineering participation in a large multidisciplinary project.
Language	English
Contact person	Dr.ir. M.J. Bentum
Specific prerequisites (regarding incoming exchange)	Basic knowledge Electrical Engineering
Participating study	Electrical Engineering
Starting block	any

Theme

Electrical Engineers are essential for large multidisciplinary projects, such as the Greenteam and Solar Challenge projects. At the university these projects are performed and organized by students. Electrical Engineers are part of these teams and use their knowledge of electronics, control, system design, circuits, communication systems and signal theory in these projects. In case the tasks of individual students is deepening the electrical engineering aspects of the project, this work can be done within this module in the bachelor program.

Content (including project)

The student will participate in the Greenteam, the Solar Challenge team or a similar large multidisciplinary projectteam.

Learning goals

In general, the learning goals will address:

- Personal development as an Electrical Engineer
- Development of expertise in a delineated field of expertise of Electrical Engineering
- Autonomous acquisition of knowledge

Additional learning goals are -individually- depicted from the perspective of the chosen subject.

Educational forms

The educational form will be depending on the kind of project the student will choose. Students will work individually on projects. One of the staff members (an EE examiner) will be appointed as coach. During the module, the students will meet the coach at least two occasions:

1. Half-way during the module students will present their project.
2. At the end of the module, student will present their work with a written report.

In principle, students are free to define their own challenge in consultation with a member of scientific staff. To start this module students have to follow the rules:

- The topic/challenge must be a deepening Electrical Engineering assignment
- The size of this project is at least 15 EC
- An examiner of the EE program must be found to agree to be the coach of the student.
- A written report must be handed over to the coach for grading of the module
- The student must submit a project proposal to the exam board (prior to starting the module), that describes the- project(s), including the name of the coach.

Assessments

The work of the student will be summarized in a written report, including a research/design question, an overview of the activities and conclusions.

This written report will be assessed by the coach.