Course: Graduation Project — credits: 30

Course code	ELVB24GRAD
Name	Graduation Project
Study year	2025-2026
ECTS credits	30
Language	Dutch, with parts in English, English
Coordinator	H.T. Keulen
Modes of delivery	Graduation project International graduation project
Assessments	Graduation Project - Assessment

Learning outcomes

The student demonstrates during the graduation project that he/she has gained all the competences and skills that are characteristic for an electrical engineer. Specifically, he/she:

- Analyses independently a complex and unstructured engineering problem in a multidisciplinary context, understands the current situation and customer's stakes, which results in formulating the objective, goal and requirements of the problem.
- Designs independently the solution to the problem based on the requirements and taking societal interests into account while considering feasibility and testability of the solution by using proper design methods.
- Realises and implements independently a complex product or process that the student designs to demonstrate that he/she uses the proper materials and methods and to validate whether the product/process fulfils the requirements. The student documents properly analysis, design and realisation.
- Demonstrates the understanding of maintenance aspects of the product/process by making implementation and maintenance plans and monitoring performance of the product/process.
- Plans the project based on the available resources, adapts if necessary and communicates in a proper manner to the stakeholders.
- Formulates suitable recommendations based on research and actual overview of the professional field and presents these recommendations in a clear way to those concerned. Student gives advice that matches with the question asked.
- Formulates the research question based on the objectives and requirements of the project following the problem analysis in which the student researches its context and potential solutions in scientific literature or other information sources and presents the results and the conclusions of the research in a structured manner staying critical to research approach and results.
- Demonstrates professional behaviour in a complex environment by reflecting on his/her own behaviour, giving and receiving constructive feedback and communicating effectively in English or Dutch by making a complete documentation of his/her research, all project phases/stages and offering the most significant aspects and results in a presentation.

Content

The graduation is the final part of your study at the Hanze University of Applied Sciences. During this phase, you will demonstrate that you have the ability to independently apply your competencies to an assignment based on the industries' practices or real-life cases; at the level of Bachelor of Science. In a broad sense, on completion of the graduation the student must clearly demonstrate that s/he is competent in the following areas of expertise:

1. To work in a structured, project-based and results-focused manner
2. To translate customer's (or stakeholder's) demands in a program of requirements for a product, system or service
3. To apply social and communicative skills efficiently throughout the graduation period.
4. To solve a technical problem by conducting research
5. To apply knowledge and skills in a new situation

These objectives have been derived from the competencies that take a central position during the graduation assignment.

Included in programme(s)

Electrical Engineering Major Mechatronics
Electrical Engineering Major Sensors & Smart Systems
Electrical Engineering Major Energy & Power Electronics

School(s)

Institute of Engineering

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