Hanze

Course: Project Research, Design, Engineering or Maintenance — credits: 10

Course code	WBVB26PRDE
Name	Project Research, Design, Engineering or Maintenance
Study year	2026-2027
ECTS credits	10
Language	Dutch, with parts in English, English
Coordinator	B. Heikema
Modes of delivery	Education
Assessments	Professional Skills - Assignment Project Research, Design, Engineering or Maintenance - Assignment

Learning outcomes

General

The student:
- manages and reflects on his/her/their individual role in accordance with his/her personal development plan;
- manages and reflects on his/her/their activities within the project team, in accordance with the project organization;
- Evaluates the designed solution with the stakeholders (client and supervisor)

Problem analysis and definition

The student:
- sets up and documents an appropriate project organization with co-workers such that the project team is leading and the supervisor has an advising role;
- analyses a given problem and formulates this problem into a clear problem statement and project goal;
- investigates various systematic approaches and motivates the selection of the most suited approach;
- elaborates the selected approach into a project plan including scope, approach and planning in accordance with the stakeholders (client and supervisor);

Design and Engineering

The student:
- analyses the technical aspects of the problem along with conducting a literature research and documents these findings;
- designs a concept solution for a technical problem based on the findings of the analyses using a systematic approach in close cooperation with the client;
- engineers the designed solution such that the design is ready to be implemented;
- documents and motivates the designed solution to the stakeholders;

Content

In this project (10 EC) a professional mechanical engineering problem is addressed. The subject contains product as well as system issues. During the project the entire engineering process is addressed. First, an analysis of the problem including a literature research will be performed. Subsequently, a solution to the problem will be methodically designed and constructed according to specifications that also take into account the required maintenance. The project will be performed in close cooperation with the client.

Included in programme(s)

Mechanical Engineering VWO a 3-year variant
Mechanical Engineering
Exchange Research, Design & Engineering (spring)

School(s)

Engineering, Life Sciences & ICT

share your talent. move the world.

Although every effort has been taken to ensure the accuracy of the information in the ECTS Course Catalogue, we cannot guarantee that the content and the information contained in it is always up-to-date, complete or true. Accordingly, no rights can be derived from the contents of the catalogue.