Course: Introductory Project — credits: 5

Course code	WBVP24IP
Name	Introductory Project
Study year	2026-2027
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	M.J. Kroes
Modes of delivery	Education
Assessments	Introductory Project - Assignment

Learning outcomes

The early-career professional
1 collaborates effectively within a technical project, takes ownership of their own contribution, communicates clearly and respectfully, and, as part of a team, delivers an agreed project outcome, ensuring that the joint construction and development process proceeds in a focused and responsible manner.
2 under supervision, investigates the operation of a simple thermal system by carrying out measurements, making observations and recognising the basic principles of heat transfer, so that conclusions can be drawn about the function, operation and energy behaviour of the system.
3 applies, under supervision, a simple design method to develop a functional component of a thermal system, and produces a workable design that meets the project brief.
4 constructs, under supervision, a simple component of a thermal system, carries out a basic test and reports findings, so that the component functions in accordance with the project agreements and contributes to the system as a whole.

Content

In this module, first-year mechanical engineering students are introduced to the entire process of developing a technical solution within the field of energy engineering. Students work in teams on a physical component of a thermal setup, learning in the process to collaborate on projects, communicate effectively and take responsibility. They investigate how a simple thermal system functions by measuring, observing and applying the basic principles of heat transfer and fluid mechanics.
Building on these insights, students design a simple, functional component. They then build and test this component, thereby actively linking theory and practice.
The module thus lays the foundation for professional competence, investigative skills, ownership and collaborative learning. Students experience how collaboration, research, design and fabrication are inextricably linked in the professional practice of a mechanical engineer, and how technical choices contribute to responsible, safe and sustainable working practices.

Included in programme(s)

Mechanical Engineering

School(s)

Engineering, Life Sciences & ICT

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