Course: Drive systems — credits: 15

Course code	ELVB24DSYS
Name	Drive systems
Study year	2025-2026
ECTS credits	15
Language	Dutch, with parts in English, English
Coordinator	A.M. Overweel-Vogelaar
Modes of delivery	Lecture Practical / Training
Assessments	Drive systems Project - Assignment Drive systems Skills - Assignment Drive systems Theory - Computer, organised by STAD examinations

Learning outcomes

Definition: The starting professional uniformly maps out a problem or customer need, places it in the right context, consults relevant sources and converts this into an objective, problem definition and electrotechnical requirements.

Maintenance: The starting professional ensures that an electrotechnical product/service/process functions in accordance with specific quality criteria by means of repair, maintenance or (use/maintenance) instructions.

Professionalisation: The starting professional is able to acquire skills and keep them up to date, is self-managing, constructive in giving and receiving feedback, shows flexibility and can communicate clearly.

Content

In this module you will learn everything about drive systems; this means the entire conversion of electrical power to mechanical power. You will also work on your study choices for years 3 and 4 in the field of professional skills in the form of job application training, among other things.

You start this course with a number of basic knowledge components where: network theory (3-phase systems), mechanics and magnetism are discussed. As a follow-up to this, you will dive into the fields of power electronics, electrical and mechanical drives. With all the knowledge you have gained, you are then able to analyze a drive system and give advice on the functioning of the system in the form of a replacement and/or maintenance proposal.

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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