

## Course: Drive systems

credits: 15

<b>Course code</b>	ELVB23DSYS
<b>Name</b>	Drive systems
<b>Study year</b>	2023-2024
<b>ECTS credits</b>	15
<b>Language</b>	Dutch, with parts in English
<b>Coordinator</b>	A. Hoogerwerf

<b>Modes of delivery</b>	Lecture Practical / Training
<b>Assessments</b>	Drive systems - Assignment

### 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 Sensor Technology  
Electrical Engineering Major Electronics  
Electrical Engineering Major Mechatronics

### School(s)

Institute of Engineering

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