

# Curriculum Elektrotechnik (Vollzeit)

Valid from Autumn Semester 2019/2020 / 04.05.2022

Semester	Context Modules	Project Modules	Subject-Specific Modules				Mathematics and Natural Science Modules		
Semester 6	Elective Module Context 2	Bachelor Thesis: Electrical Engineering DE/EN 12	Elective Module 2 4	Elective Module 4 4	Elective Module 6 4	Elective Module 8 4			
Semester 5	Elective Module Context 2	Elective Module Context 2	Project Thesis: Electrical Engineering DE/EN 6	Elective Module 1 4	Elective Module 3 4	Elective Module 5 4	Elective Module 7 4	Elective Module Cross-Curricular 4	
Semester 4	Business Administration DE 2	Electronics Project 2 EN 4	Digital Signal Processing 1 DE 4	Control Engineering Fundamentals DE 4	Electronics 2 DE 4	Computer Engineering 2 DE 4		Numerics DE 4	Physics 3: Fields and Waves DE 4
Semester 3	Communication Competence 3 DE/EN 2	Electronics Project 1 EN 4	Signals and Systems 1 DE/EN 4	Power Engineering and Drive Technology DE 4	Electronics 1 DE 4	Computer Engineering 1 DE/EN 4	Stochastics and Statistics DE 4	Analysis 3 DE 4	
Semester 2	Communication Competence 2 DE/EN 2	Digital Technology Project DE 4	Digital Communication Networks DE 4		Electricity 2 DE 4	Computer Science 2 DE 4	Linear Algebra 2 DE 4	Analysis 2 DE 4	Physics 2 DE 4
Semester 1	Communication Competence 1 DE/EN 2	Metrology Project DE 4	Digital Technology DE 2	Materials for Electrical Engineering DE 2	Electricity 1 DE 4	Computer Science 1 DE 4	Linear Algebra 1 DE 4	Analysis 1 DE 4	Physics 1 DE 4

Module Name  
Language of Instruction  
Credits

## Overview of Electrical Engineering elective modules

During your third year of study, you will choose eight of the following elective modules: This will allow you to create an individual profile, for example in the following areas:

- Automation, Drives and Energy Systems
- Computer Engineering
- Wireless Communications, Signal Processing and Sensor Electronics

Semester	Module	Language
Semester 6	Automation 2	EN
	Communication Networks and Services 2	EN
	Digital Image Processing 2	EN
	Internet of Things 2	EN
	Power Electronics and Electrical Drives 2	DE
	Biomedical Engineering 2	DE
	Microcomputer Systems 2	DE
	Control Theory 2	DE
	Robotics and Mechatronics 2	DE
	Wireless Communication 2	DE
	Advanced Electronics	DE
	Digital Signal Processing 2	DE
	Multicore und Parallel Computing	
Optoelectronics		
Sensors		
Semester 5	Automation 1	EN
	Communication Networks and Services 1	EN
	Digital Image Processing 1	EN
	Internet of Things 1	EN
	Power Electronics and Electrical Drives 1	DE
	Biomedical Engineering 1	DE
	Microcomputer Systems 1	DE
	Control Theory 1	DE
	Robotics and Mechatronics 1	DE
	Wireless Communication 1	DE
	Embedded Software Engineering	DE
	Cryptography	DE
	System on Chip Design	