

Electrical Engineering Curriculum (part-time)

Valid from Autumn Semester 2019/2020 / 04.05.2022

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

Context Modules

Project Modules

Subject-Specific Modules

Mathematics and Natural Science Modules

Module Name

Language of Instruction

Credits

Overview of Electrical Engineering elective modules

During your third and fourth 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 6/8	Automation 2	EN
	Multicore und Parallel Computing	
Semester 5/7	Automation 1	EN
	System on Chip Design	
Semester 6/8	Communication Networks and Services 2	EN
	Optoelectronics	
Semester 5/7	Communication Networks and Services 1	EN
	Embedded Software Engineering	DE
Semester 6/8	Digital Image Processing 2	EN
	Sensors	
Semester 5/7	Digital Image Processing 1	EN
	Cryptography	DE
Semester 6/8	Internet of Things 2	EN
Semester 5/7	Internet of Things 1	EN
Semester 6/8	Power Electronics and Electrical Drives 2	DE
Semester 5/7	Power Electronics and Electrical Drives 1	DE
Semester 6/8	Biomedical Engineering 2	DE
Semester 5/7	Biomedical Engineering 1	DE
Semester 6/8	Microcomputer Systems 2	DE
Semester 5/7	Microcomputer Systems 1	DE
Semester 6/8	Control Theory 2	DE
Semester 5/7	Control Theory 1	DE
Semester 6/8	Robotics and Mechatronics 2	DE
Semester 5/7	Robotics and Mechatronics 1	DE
Semester 6/8	Wireless Communication 2	DE
Semester 5/7	Wireless Communication 1	DE
Semester 6/8	Advanced Electronics	DE
Semester 5/7	Advanced Electronics	DE
Semester 6/8	Digital Signal Processing 2	DE
Semester 5/7	Digital Signal Processing 1	DE