Electrical Engineering Curriculum (full-time)
Valid from Autumn Semester 2019/2020 / 12.02.2021

Module Name
Language of Instruction
Credits

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

Semester 3
Communication Competence 3 DE/EN 3
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 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 4
Materials for Electrical Engineering DE 4
Electricity 1 DE 4
Computer Science 1 DE 4
Linear Algebra 1 DE 4
Analysis 1 DE 4
Physics 1 DE 4

Context Modules
Project Modules
Subject-Specific Modules
Mathematics and Natural Science 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

### Overview of Electrical Engineering elective modules

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<td>Communication Networks and Services 1</td>
<td>Digital Image Processing 1</td>
<td>Internet of Things 1</td>
<td>Power Electronics and Electrical Drives 1</td>
<td>Biomedical Engineering 1</td>
<td>Microcomputer Systems 1</td>
<td>Control Theory 1</td>
<td>Robotics and Mechatronics 1</td>
<td>Wireless Communication 1</td>
<td>Embedded Software Engineering</td>
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Semester 5: Automation 1, Communication Networks and Services 1, Digital Image Processing 1, Internet of Things 1, Power Electronics and Electrical Drives 1, Biomedical Engineering 1, Microcomputer Systems 1, Control Theory 1, Robotics and Mechatronics 1, Wireless Communication 1, Embedded Software Engineering, Cryptology