

Curriculum

Electrical Energy & Mobility Systems

Master | Work-friendly

1 st Semester	ECTS
Electrochemistry	2,5
Electrical Engineering	2
Mechanical Engineering	2
Mathematical Methods and Modelling	4,5
Industrial Data Processing	2
Mechanical Dynamics	2
Thermodynamics	2
Fluid Dynamics	2,5
Control Systems	3,5
Control Systems Lab	3
Experimental Lab in Science Engineering	2,5
Academic Competence Skills	1,5
Total	30

3 rd Semester	ECTS
Motion Control	2
Electrical Drive and Drive Control	2
Power Train Simulation	3,5
Geoinformation Systems	1,5
Mobile Information Systems	3,5
Automotive Safety	2,5
Electrical Grids and Distribution	3
Measurement and Monitoring	2,5
Energy Automation	2
GUI and Usability	2
Mobility Concepts	3
Mobility Concepts Lab	2,5
Total	30

2 nd Semester	ECTS
Battery Technologies	2
Storage Systems	2
Battery Lab	3
Advanced Electrical Engineering	4
Power Electronic Systems	3
Non-Renewable Energy Systems	2
Renewable Energy Systems	2
Alternative Concepts	3
Power Train and Traction	4
Electrical Machines	3
Specialisation Lab in Science Engineering	2
Total	30

4 th Semester	ECTS
Master Thesis	25
Master Thesis – Seminar	2
Master Exam	3
Total	30
Total Sum	120

ECTS = European Credit Transfer System