(DE)	Competences (DE)	Technologies (EN)	Semester Semester	(DE)	Management (EN)	(EN/DE)
5 ECTS Hands-On experience (EN+DE)	s ects Physics (EN)	s ECTS Machine Dynamics (EN)		sects Software Engineering + Object Oriented Programming (EN)	5 ECTS Compulsary Elective Module (DE/EN)	
5 ECTS Machine Design and CAD	5 ECTS Technical Mechanics	5 ECTS Signals and Systems		5 ECTS Sensors and Drives	5 ECTS Compulsary Elective Module	
(EN)	(EN)	(DE)		(EN)	(DE/EN)	12 ECTS Project (EN/DE)
s ecrs Mathematics 1 (EN)	sects Mathematics 2 (EN)	sects Mathematics 3 (EN)		Fluid Dynamics and Thermodynamics (DE)		
s ects Electrical Engineering (EN)	sects Programming (EN+DE)	SECTS Microprocessor Systems (EN)		25 ECTS Specialization Modules: - Energy Science and Technology - Sustainable Mobility - Environmental Engineering - Data Based Engineering - Robotics and Cyberphysical Systems (DE/EN)		2 ECTS Scientific Writing
s ECTS Basic Concepts of Sustainability (EN)	sects Electronics (EN)	s ects Lab Project (DE)				(DE/EN) 4 ECTS General Studies (DE)
Key						
,	Electives + Areas of Specialization	Internship Semester	Thesis E	crs European Credit ransfer System		
Lectures taught in: EN English DE German EN+DE English + German DE/EN German or English						

Main studies

3rd Semester

Process and

5 ECTS

Material

4th Semester

Integrated

Practical

30 ECTS

5th Semester

Control Systems

5 ECTS

(DE)

6th Semester

Project and

5 ECTS

Quality

7th Semester

Bachelor's

Thesis

Foundation studies

2nd Semester

Communication

and Intercultural

1st Semester

5 ECTS

Basics

Language