

COURSE CONTENTS

E-MOBILITY AND GREEN ENERGY

SEM.	MODULE OVERVIEW						ECTS
1	Electrical Engineering 1: Basics 5	Mathematics 1: Analysis 1 5	Mathematics 2: Linear Algebra 5	Programming & practical course 5	Digital Technology & practical course 5	Physics Mechanics 5	30
2	Electrical Engineering 2: Electrodynamics 5	Metrology 1: Basics & practical course 5	Mathematics 3: Analysis 2 5	Automotive Engineering 5	Material Science 5	Computer Aided Circuit Design 1 & practical course 5	30
3	Electrical Engineering 3: Time and Frequency Domains 5	Robotics & practical course 5	Electrical Engineering Practical 5	Electronics 5	Automotive Engineering: Practical and Computer Aided Design (CAD) 5	Machinery Design 5	30
4	Profile 1: Study Focus 5	German Language 5	Power Electronics 5	Seminar: Main Study 5	Introduction to Power Train Engineering 5	Elective Module 5	30
5	Internship						30
6	Digital Signal Processing & practical course 5	Seminar: Scientific Work 5	Microcontroller & practical course 5	Real-Time Programming & practical course 5	Profile 2: Study Focus 5	Profile 3: Study Focus 5	30
7	Green Energies und Energy Storage & practical course 7	Control Engineering & practical course 6	Image Processing & practical course 5	Bachelor-Thesis		12	30