Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w22)

	•	al Engineering Science (Germa	ii program, 7 Semester) (AlWBS	D(1)) Duai		isation Compulsory Focus Compulsory	Thesis Compulsory
- '	rogram				Core Qualification Elective Compulsory Special	isation Elective Compulsory Focus Elective Compulsor	Interdisciplinary complement
ecial	isation Electrical Engineering						
	Chemistry VL 4 Chemistry I+II HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating VL 3 Current Networks and Basic Devices Electrical Engineering II: Alternating GÜ 2 Current Networks and Basic Devices	Technical Thermodynamics II	Signals and Systems Signals and Systems VL 3 Signals and Systems GÜ 2	Introduction to Control Systems Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2	Advanced Internship AIW/ ES
0	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current VL 3 Networks and Electromagnetic Fields Electrical Engineering I: Direct Current GÜ 2 Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering VL 2 Design Fundamentals of Mechanical Engineering HÜ 2 Design	Mathematics III Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1	Practical module 4 (dual study program, Bachelor's degree) Practical term 4 0	Practical module 5 (dual study program, Bachelor's degree) Practical term 5 0	Electrical Engineering Project Laboratory Electrical Engineering Project Laboratory PBL 8	
	Mathematics I VL 4 Mathematics I HÛ 2 Mathematics I GÛ 2	Technical Thermodynamics VL 2 Technical Thermodynamics HÛ 1 Technical Thermodynamics GÛ 1 Technical Thermodynamics Technical Thermodynamic	Practical module 3 (dual study program,	Theoretical Electrical Engineering I: Time- Independent Fields Theoretical Electrical Engineering I: Time- VL 3 Independent Fields	Theoretical Electrical Engineering II: Time- Dependent Fields Theoretical Electrical Engineering II: VL 3 Time-Dependent Fields	Semiconductor Circuit Design Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GÜ 1	
5 7 3			Bachelor's degree) Practical term 3 0	Theoretical Electrical Engineering I: Time- $G\hat{U}=2$ Independent Fields	Theoretical Electrical Engineering II: GÜ 2 Time-Dependent Fields		
)		Mathematics II VL 4 Mathematics II HÜ 2		Materials in Electrical Engineering Materials in Electrical Engineering VL 2	Introduction to Communications and Random Processes Introduction to Communications and VL 3		Bachelor thesis (dual study program)
1 2 3	Computer Science for Engineers - Introduction and Overview Computer Science for Engineers - VL 3 Introduction and Overview Computer Science for Engineers - GÜ 2 Introduction and Overview	Mathematics II GÜ 2	Engineering Mechanics III (Dynamics) Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1	Materials in Electrical Engineering GÜ 2 Electrotechnical Experiments VL 2	Random Processes Introduction to Communications and HÜ 1 Random Processes Introduction to Communications and GÜ 1 Random Processes		
5 6	illicouction and Overview			Mathematics IV Complex Functions VL 2 Complex Functions GÜ 1	Electronic Devices VL 3 Electronic Devices PBL 2		
7 8 9 0	Practical module 1 (dual study program, Bachelor's degree) Practical term 1 0	Practical module 2 (dual study program, Bachelor's degree) Practical term 2 0	Electrical Engineering III: Circuit Theory and Transients Circuit Theory VL 3 Circuit Theory GÜ 2	Complex Functions HÜ 1 Differential Equations 2 VL 2 Differential Equations 2 GÜ 1 Differential Equations 2 HÜ 1			
2				Introduction to Waveguides, Antennas, and Electromagnetic Compatibility Introduction to Waveguides, Antennas, VL 3	Electrical Power Systems I: Introduction to Electrical Power Systems Electrical Power Systems I: Introduction VL 3		
i	Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 1	Engineering Mechanics II (Elastostatics) Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2 Engineering Mechanics II HÜ 2	Computer Engineering VL 3 Computer Engineering GÜ 1	and Electromagnetic Compatibility Introduction to Waveguides, Antennas, GÜ 2 and Electromagnetic Compatibility	to Electrical Power Systems Electrical Power Systems I: Introduction GÜ 2 to Electrical Power Systems		
3	Linking theory and practice (dual study						

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.