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

	course plan B Bachelor Gener	ai Engineering Science (Germa	n program, 7 semester) (AIWBS	o(/)) Dual		isation Compulsory Focus Compulsory	Thesis Compulsory
- '	rogram				Core Qualification Elective Compulsory Special	isation Elective Compulsory Focus Elective Compulsor	Interdisciplinary complement
cial	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  Technical Thermodynamics II	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
) L	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	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         H0         2           Mathematics I         G0         2	Technical Thermodynamics I         VL         2           Technical Thermodynamics I         HÜ         1           Technical Thermodynamics I         GÜ         1	Practical module 3 (dual study program, Bachelor's degree) Practical term 3 0	Theoretical Electrical Engineering I: Time- Independent Fields Theoretical Electrical Engineering I: Time- VL 3 Independent Fields Theoretical Electrical Engineering I: Time- GÜ 2 Independent Fields	Theoretical Electrical Engineering II: Time- Dependent Fields Theoretical Electrical Engineering II: VL 3 Time-Dependent Fields Theoretical Electrical Engineering II: GÜ 2 Time-Dependent Fields	Semiconductor Circuit Design Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GÜ 1	
		Mathematics II  Mathematics II VL 4		Materials in Electrical Engineering  Materials in Electrical Engineering VL 2	Introduction to Communications and Random Processes		Bachelor thesis (dual study program)
	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 HÜ 2 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	Introduction to Communications and VL 3 Random Processes Introduction to Communications and HÜ 1 Random Processes Introduction to Communications and GÜ 1 Random Processes		
5	Practical module 1 (dual study program,	Practical module 2 (dual study program,	Electrical Engineering III: Circuit Theory and	Mathematics IV         VL         2           Complex Functions         GÜ         1	Electronic Devices  Electronic Devices  VL 3  Electronic Devices  PBL 2		
3	Practical term 1 0	Practical term 2 0	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			
L 2				Electrical Machines and Actuators Electrical Machines and Actuators VL 3 Electrical Machines and Actuators HÜ 2	Measurements: Methods and Data Processing Measurements: Methods and Data VL 2 Processing		
	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 GO 2 Engineering Mechanics II HÜ 2	Computer Engineering VL 3 Computer Engineering GÜ 1		Measurements: Methods and Data GÜ 1 Processing EE Experimental Lab PR 2		
7	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.