Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w18)

Core Qualification Compulsory

	course plan A Bachelor Genera		n program, 7 semester) (AIWE	S(7))	Core Qualification Elective Compulsory Specialis	sation Elective Compulsory Focus Elective Compulsor	Interdisciplinary complement
pecial	isation₁Electrical Engineering,wk	Semester 2 FormHrs/wk	Semester 3 FormHrs/	vk Semester 4 FormHrs/wk	Semester 5 FormHrs/wk	Semester 6 FormHrs/wk	Semester 7 FormHrs/v
1 2 3 4 5	Chemistry VL 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	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	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: SE 1 Preparation Advanced Internship AIW/ E5: Internship- advanced Intenship AIW/ E5: Internship- secompanying Seminar
7 8 9 10 11	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 Pundamentals of Mechanical Engineering VL 2 Design Fundamentals of Mechanical Engineering HÜ 2 Design	Mathematics III Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1	Signals and Systems Signals and Systems VL 3 Signals and Systems GÜ 2	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	Electrical Engineering Project Laboratory Electrical Engineering Project Laboratory PBL 8	
13 14 15 16 17	Mathematics	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I)	Materials in Electrical Engineering Materials in Electrical Engineering VL 2 Materials in Electrical Engineering GÜ 2 Electrotechnical Experiments VL 1	Introduction to Communications and Random Processes Introduction to Communications and VL 3 Random Processes Introduction to Communications and HÜ 1 Random Processes Introduction to Communications and GÜ 1 Random Processes	Semiconductor Circuit Design Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GÜ 1	
19 20 21 22 23 24	Mechanics I (Statics) Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1	Mechanics II: Mechanics of Materials VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2 Mechanics III HÜ 2	Computer Engineering Computer Engineering VL 3 Computer Engineering GÜ 1	Mathematics IV Complex Functions VL 2 Complex Functions GÜ 1 Complex Functions HÜ 1 Differential Equations 2 VL 2 Differential Equations 2 GÜ 1 Differential Equations 2 HÜ 1	Electronic Devices Electronic Devices VL 3 Electronic Devices PBL 2		Bachelor Thesis
25 26 27 28 29	Programming in C Programming in C VL 1 Programming in C PR 1 Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers GÜ 1	Mathematics II Linear Algebra II	Electrical Engineering III: Circuit Theory and Transients Circuit Theory VL 3 Circuit Theory G0 2	Introduction to Waveguides, Antennas, and Electromagnetic Compatibility Introduction to Waveguides, Antennas, VL 3 and Electromagnetic Compatibility Introduction to Waveguides, Antennas, GÜ 2 and Electromagnetic Compatibility	Electrical Power Systems I: Introduction to Electrical Power Systems Electrical Power Systems I: Introduction VL 3 to Electrical Power Systems Electrical Power Systems Licetrical Power Systems to Electrical Power Systems		
31 32	Nontechnical Complementary Courses f	for Pachalars (from catalogue) 6LP					

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