

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w19)

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation Electrical Engineering																
1	Chemistry Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1		Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3 Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2		Technical Thermodynamics II Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1		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 Advanced Internship AIW/ ES: Preparation SE 1 Advanced Intership AIW/ ES: Internship-accompanying Seminar SE 1			
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7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3 Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2		Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design VL 2 Design Fundamentals of Mechanical Engineering Design HÜ 2		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		Theoretical Electrical Engineering I: Time-Independent Fields Theoretical Electrical Engineering I: Time-Independent Fields VL 3 Independent Fields Theoretical Electrical Engineering I: Time-Independent Fields GÜ 2		Theoretical Electrical Engineering II: Time-Dependent Fields Theoretical Electrical Engineering II: Time-Dependent Fields VL 3 Time-Dependent Fields Theoretical Electrical Engineering II: Time-Dependent Fields GÜ 2		Electrical Engineering Project Laboratory Electrical Engineering Project Laboratory PBL 8					
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12	Mathematics I Linear Algebra I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I GÜ 1 Analysis I HÜ 1		Technical Thermodynamics I Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1		Mechanics III (Dynamics) Mechanics III VL 3 Mechanics III GÜ 2 Mechanics III HÜ 1		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 Random Processes VL 3 Random Processes Introduction to Communications and Random Processes HÜ 1 Random Processes Introduction to Communications and Random Processes GÜ 1		Semiconductor Circuit Design Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GÜ 1					
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18							Mechanics I (Statics) Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1		Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II 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	
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23	Programming in C Programming in C VL 1 Programming in C PR 1		Mathematics II Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1		Electrical Engineering III: Circuit Theory and Transients Circuit Theory VL 3 Circuit Theory GÜ 2		Introduction to Waveguides, Antennas, and Electromagnetic Compatibility Introduction to Waveguides, Antennas, and Electromagnetic Compatibility VL 3 Introduction to Waveguides, Antennas, and Electromagnetic Compatibility GÜ 2		Electrical Power Systems I: Introduction to Electrical Power Systems Electrical Power Systems I: Introduction to Electrical Power Systems VL 3 Electrical Power Systems I: Introduction to Electrical Power Systems GÜ 2							
24																
25																
26																
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28	Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers GÜ 1															
29																
30																
31																
32	Non-technical Courses for Bachelors (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.

