

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20)

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

Specialisation Electrical Engineering										
1	Chemistry Chemistry I+II VL 4 Chemistry I+II HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3 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: SE 1 Preparation Advanced Intership AIW/ ES: Internship- SE 1 accompanying Seminar			
2										
3										
4										
5										
6										
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 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	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				
8										
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10										
11										
12										
13	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				
14										
15										
16										
17										
18										
19				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	Electrical Engineering III: Circuit Theory and Transients Circuit Theory VL 3 Circuit Theory GÜ 2	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
20										
21										
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25	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	Computer Engineering Computer Engineering VL 3 Computer Engineering GÜ 1				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		
26										
27										
28										
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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.

