

# Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w21)

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

Specialisation Electrical Engineering								
1	<b>Chemistry</b> Chemistry I+II VL 4 Chemistry I+II HÜ 2	<b>Electrical Engineering II: Alternating Current Networks and Basic Devices</b> Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3 Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2 Current Networks and Basic Devices	<b>Technical Thermodynamics II</b> Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1	<b>Signals and Systems</b> Signals and Systems VL 3 Signals and Systems GÜ 2	<b>Introduction to Control Systems</b> Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	<b>Foundations of Management</b> Introduction to Management VL 3 Management Tutorial GÜ 2	<b>Advanced Internship AIW/ ES</b> Advanced Internship AIW/ ES: SE 1 Preparation Advanced Intership AIW/ ES: Internship- SE 1 accompanying Seminar	
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7	<b>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields</b> Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3 Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2	<b>Fundamentals of Mechanical Engineering Design</b> Fundamentals of Mechanical Engineering VL 2 Design Fundamentals of Mechanical Engineering HÜ 2 Design	<b>Mathematics III</b> 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	<b>Theoretical Electrical Engineering I: Time-Independent Fields</b> Theoretical Electrical Engineering I: Time-Independent Fields VL 3 Theoretical Electrical Engineering I: Time-Independent Fields GÜ 2	<b>Theoretical Electrical Engineering II: Time-Dependent Fields</b> Theoretical Electrical Engineering II: Time-Dependent Fields VL 3 Theoretical Electrical Engineering II: Time-Dependent Fields GÜ 2	<b>Electrical Engineering Project Laboratory</b> Electrical Engineering Project Laboratory PBL 8		
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13	<b>Mathematics I</b> 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	<b>Technical Thermodynamics I</b> Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	<b>Engineering Mechanics III (Dynamics)</b> Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1	<b>Materials in Electrical Engineering</b> Materials in Electrical Engineering VL 2 Materials in Electrical Engineering GÜ 2 Electrotechnical Experiments VL 1	<b>Introduction to Communications and Random Processes</b> Introduction to Communications and Random Processes VL 3 Introduction to Communications and Random Processes HÜ 1 Introduction to Communications and Random Processes GÜ 1	<b>Semiconductor Circuit Design</b> Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GÜ 1		
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19		<b>Mechanics I (Statics)</b> Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1	<b>Mechanics II: Mechanics of Materials</b> Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2	<b>Electrical Engineering III: Circuit Theory and Transients</b> Circuit Theory VL 3 Circuit Theory GÜ 2	<b>Mathematics IV</b> 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	<b>Electronic Devices</b> Electronic Devices VL 3 Electronic Devices PBL 2		<b>Bachelor Thesis</b>
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25	<b>Computer Science for Engineers - Introduction and Overview</b> Computer Science for Engineers - Introduction and Overview VL 3 Computer Science for Engineers - Introduction and Overview GÜ 2		<b>Mathematics II</b> 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	<b>Computer Engineering</b> Computer Engineering VL 3 Computer Engineering GÜ 1	<b>Introduction to Waveguides, Antennas, and Electromagnetic Compatibility</b> Introduction to Waveguides, Antennas, and Electromagnetic Compatibility VL 3 Introduction to Waveguides, Antennas, and Electromagnetic Compatibility GÜ 2	<b>Measurements: Methods and Data Processing</b> Measurements: Methods and Data Processing VL 2 Measurements: Methods and Data Processing GÜ 1 EE Experimental Lab PR 2		
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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.

