

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

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

Specialisation Bioprocess Engineering														
1	<b>Chemistry</b> Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1		<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		<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: Preparation SE 1 Advanced Intenship AIW/ ES: Internship-accompanying Seminar SE 1	
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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 Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2		<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>Fundamentals of Fluid Mechanics</b> Fundamentals of Fluid Mechanics VL 2 Fluid Mechanics for Process Engineering HÜ 2		<b>Heat and Mass Transfer</b> Heat and Mass Transfer VL 2 Heat and Mass Transfer GÜ 1 Heat and Mass Transfer HÜ 1		<b>Process and Plant Engineering I</b> Process and Plant Engineering I VL 2 Process and Plant Engineering I HÜ 1 Process and Plant Engineering I GÜ 1			
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11	<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>Mechanics III (Dynamics)</b> Mechanics III VL 3 Mechanics III GÜ 2 Mechanics III HÜ 1		<b>Phase Equilibria Thermodynamics</b> Phase Equilibria Thermodynamics VL 2 Phase Equilibria Thermodynamics GÜ 1 Phase Equilibria Thermodynamics HÜ 1		<b>Thermal Separation Processes</b> Thermal Separation Processes VL 2 Thermal Separation Processes GÜ 2 Thermal Separation Processes HÜ 1 Separation Processes PR 1		<b>Particle Technology and Solids Process Engineering</b> Particle Technology I VL 2 Particle Technology I GÜ 1 Particle Technology I PR 2			
14														
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17			<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>Computer Engineering</b> Computer Engineering VL 3 Computer Engineering GÜ 1		<b>Biochemistry and Microbiology</b> Biochemistry VL 2 Biochemistry PBL 1 Microbiology VL 2 Microbiology PBL 1		<b>Chemical Reaction Engineering (part 1)</b> Chemical Reaction Engineering VL 2 Chemical Reaction Engineering HÜ 2		<b>Chemical Reaction Engineering (part 2)</b> Experimental Course Chemical Engineering PR 2	
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22														
23	<b>Programming in C</b> Programming in C VL 1 Programming in C PR 1		<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>Fundamentals of Process Engineering and Material Engineering</b> Introduction into Process Engineering/Bioprocess Engineering VL 2 Fundamentals of material engineering VL 2		<b>Bioprocess Engineering - Fundamentals</b> Bioprocess Engineering - Fundamentals VL 2 Bioprocess Engineering - Fundamentals HÜ 2 Bioprocess Engineering - Fundamental Practical Course PR 2		<b>Bioprocess Engineering - Advanced</b> Bioprocess Engineering - Advanced VL 2 Bioprocess Engineering - Advanced GÜ 2					
26														
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29	<b>Physics for Engineers (AIW)</b> Physics for Engineers VL 2 Physics for Engineers GÜ 1								<b>Environmental Technology</b> Environmental Assessment VL 2 Environmental Assessment GÜ 1					
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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.

