

# 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 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 Current Networks and Basic Devices GÜ 2 Electrical Engineering II: Alternating 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 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 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>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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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>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			
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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>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		<b>Bachelor Thesis</b>	
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25	<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 VL 2 Engineering/Bioprocess Engineering Fundamentals of material engineering VL 2		<b>Bioprocess Engineering - Fundamentals</b>  Bioprocess Engineering - Fundamentals VL 2 Bioprocess Engineering - Fundamentals HÜ 2 Bioprocess Engineering - Fundamental PR 2 Practical Course		<b>Bioprocess Engineering - Advanced</b>  Bioprocess Engineering - Advanced VL 2 Bioprocess Engineering - Advanced GÜ 2					
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31	<b>Physics for Engineers (AIW)</b>  Physics for Engineers VL 2 Physics for Engineers GÜ 1						<b>Environmental Technology (part 1)</b>  Environmental Technologie VL 2							
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.

