

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

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

Specialisation Process 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 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 Intership AIW/ ES: Internship- SE 1 accompanying Seminar
2							
3							
4							
5							
6							
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	
8							
9							
10							
11							
12							
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	
14							
15							
16							
17							
18							
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>Renewables Energy Systems</b> Renewable Energy VL 2 Energy Systems and Energy Industry VL 2 Power Industry VL 1 Renewable Energy GÜ 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>Environmental Technology (part 2)</b> Practical Exercise Environmental Technology PR 1	<b>Bachelor Thesis</b>
20							
21							
22							
23							
24							
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>Measurement Technology for Chemical and Bioprocess Engineering</b> Measurement Technology VL 2 Physical Fundamentals of Measurement Technology VL 2 Practical Course Measurement Technology PR 2	<b>Environmental Technology (part 1)</b> Environmental Technologie VL 2	
26							
27							
28							
29							
30							
31	<b>Physics for Engineers (AIW)</b> Physics for Engineers VL 2 Physics for Engineers GÜ 1						
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.

