

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 Bioprocess 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 Current Networks and Basic Devices		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-accompanying Seminar SE 1	
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 Mechanics III (Dynamics) Mechanics III VL 3 Mechanics III GÜ 2 Mechanics III HÜ 1		Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics VL 2 Fluid Mechanics for Process Engineering HÜ 2		Heat and Mass Transfer Heat and Mass Transfer VL 2 Heat and Mass Transfer GÜ 1 Heat and Mass Transfer HÜ 1		Process and Plant Engineering I 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	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						Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics VL 2 Phase Equilibria Thermodynamics GÜ 1 Phase Equilibria Thermodynamics HÜ 1		Thermal Separation Processes Thermal Separation Processes VL 2 Thermal Separation Processes GÜ 2 Thermal Separation Processes HÜ 1 Separation Processes PR 1		Particle Technology and Solids Process Engineering Particle Technology I VL 2 Particle Technology I GÜ 1 Particle Technology I PR 2	
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				Biochemistry and Microbiology Biochemistry VL 2 Biochemistry PBL 1 Microbiology VL 2 Microbiology PBL 1		Chemical Reaction Engineering (part 1) Chemical Reaction Engineering VL 2 Chemical Reaction Engineering HÜ 2		Chemical Reaction Engineering (part 2) Experimental Course Chemical Engineering PR 2 Environmental Technology (part 2) Practical Exercise Environmental Technology PR 1			
20														
21														
22														
23														
24														
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				Bioprocess Engineering - Advanced Bioprocess Engineering - Advanced VL 2 Bioprocess Engineering - Advanced GÜ 2							
26														
27														
28														
29														
30														
31	Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers GÜ 1						Bioprocess Engineering - Fundamentals Bioprocess Engineering - Fundamentals VL 2 Bioprocess Engineering- Fundamentals HÜ 2 Bioprocess Engineering - Fundamental PR 2 Practical Course		Environmental Technology (part 1) 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.

