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

Sample course plan C Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Bioprocess Engineering

Legend:			
Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1 Forms	/wikemester 2 Forthirs	/www.ster3 Forms	/wskemester 4 Forthers	/wsiemester 5 Formirs	/wsemester 6 Formers	/wskemester 7 Formers/
1 2 3 4 5 6	Chemistry Chemistry I+II VL 4 Chemistry I+II HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering VL 3 II: Alternating Current Networks and Basic Devices Electrical Engineering UE 2 II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II Technical Technical Technical Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	Signals and Systems Signals and Systems VL 3 Signals and Systems UE 2	Introduction to Control Systems Introduction to VL 2 Control Systems Introduction to UE 2 Control Systems	Foundations of Management Introduction to VL 3 Management Management Tutorial UE 2	Advanced Internship AIW/ GES
7 8 9 10 11 12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering VL 3 I: Direct Current Networks and Electromagnetic Fields Electrical Engineering UE 2 I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering Design	Mathematics III Analysis III UE 1 Analysis III HÜ 1 Differential Equations VL 2 1 Differential Equations UE 1 Differential Equations HÜ 1 1	Fundamentals of Fluid Mechanics Fundamentals of Fluid VL 2 Mechanics Fluid Mechanics for HÜ 2 Process Engineering	Heat and Mass Transfer Heat and Mass VL 2 Transfer Heat and Mass UE 1 Transfer Heat and Mass HÜ 1 Transfer	Process and Plant Engineering I	
13 14 15 16 17 18	Mathematics I Linear Algebra I VL 2 Linear Algebra I UE 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I UE 1 Analysis I HÜ 1	Technical Thermodynamics I Technical Technical Technical Technical Thermodynamics I Technical Technical Technical Technical Technical Thermodynamics I	Mechanics III (Dynamics) Mechanics III VL 3 Mechanics III UE 2 Mechanics III HÜ 1	Thermodynamics Phase Equilibria UE 1 Thermodynamics	Thermal Separation Processes Thermal Separation VL 2 Processes Thermal Separation UE 2 Processes Thermal Separation HÜ 1 Processes Separation Processes PR 1	Particle Technology and Solids Process Engineering Particle Technology I VL 2 Particle Technology I UE 1 Particle Technology I PR 2	
19 20 21	Mechanics I (Statics)	Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II UE 2 Mechanics II HÜ 2	Computer Engineering	Biochemistry PBL1 Microbiology VL 2	Chemical Reaction Engineering (part 1) Chemical Reaction VL 2 Engineering Chemical Reaction HÜ 2 Engineering	Chemical Reaction Engineering (part 2) Experimental Course PR 2 Chemical Engineering Environmental	Bachelor Thesis
22	Mechanics I VL 2 Mechanics I UE 2		Computer Engineering VL 3 Computer Engineering UE 1	Microbiology PBL1	Bioprocess Engineering -	Technology Environmental VL 2	

	Mechanics I H	łÜ 1						Advanced Bioprocess Engineering - Advanced	VL 2	Assessment Environmental Assessment	UE 1
24 25 26			Mathematics II Linear Algebra II	VL 2		Bioprocess Engine Fundamentals	eering -	Bioprocess Engineering - Advanced	UE 2		
272829		/L 2	Linear Algebra II Analysis II Analysis II	UE 1 HÜ 1 VL 2 HÜ 1 UE 1	Fundamentals of Process Engineering and Material Engineering Introduction into VL 2 Process Engineering/Bioprocess Engineering Fundamentals of VL 2 material engineering	Bioprocess Engineering - Fundamentals Bioprocess Engineering- Fundamentals Bioprocess Engineering - Fundamental Praction	VL 2 HÜ 2 PR 2				
30 31 32						Course					

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.