## Course of Study General Engineering Science (German program) (Study Cohort w15)

Sample course plan A Bachelor General Engineering Science (German program) (AIWBS) Specialisation Process Engineering

LP	Semester 1 FormHrs/v	Semester 2 FormHrs/w	k Semester 3 FormHrs/wl	Semester 4 FormHrs/wl	Semester 5 FormHrs/wk	Semester 6 FormHrs/wk
1	Physics for Engineers (part 1)	Electrical Engineering II: Alternating Current	Technical Thermodynamics II	Fundamentals of Fluid Mechanics	Introduction to Control Systems	Foundations of Management
2	Physics for Engineers VL 2	Networks and Basic Devices	Technical Thermodynamics II VL 2	Fundamentals of Fluid Mechanics VL 2	Introduction to Control Systems VL 2	Introduction to Management VL 3
3	Physics for Engineers UE 1	Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II HÜ 1	Fluid Mechanics for Process HÜ 2	Introduction to Control Systems UE 2	Project Entrepreneurship POL 2
		Current Networks and Basic Devices	Technical Thermodynamics II UE 1	Engineering		
4		Electrical Engineering II: Alternating UE 2  Current Networks and Basic Devices				
5	Chemistry	Gandin News and Badio Berriod				
6	Chemistry I VL 2					
7	Chemistry II VL 2	Fundamentals of Mechanical Engineering	Computer Engineering	Phase Equilibria Thermodynamics	Heat and Mass Transfer	Thermal Separation Processes (part 2)
'	Chemistry I HÜ 1	Design Design	Computer Engineering VL 3	Thermodynamics III VL 2	Heat and Mass Transfer VL 2	Separation Processes PR 1
8	Chemistry II HÜ 1	Fundamentals of Mechanical VL 2	Computer Engineering UE 1	Thermodynamics III UE 1	Heat and Mass Transfer UE 1	Chemical Reaction Engineering (part 2)
		Engineering Design		Thermodynamics III HÜ 1	Heat and Mass Transfer HÜ 1	Experimental Course Chemical PR 2
9		Fundamentals of Mechanical HÜ 2				Engineering
10		Engineering Design				Process and Plant Engineering I
11	Electrical Engineering I: Direct Current					Process and Plant Engineering I VL 2
	Networks and Electromagnetic Fields					Process and Plant Engineering I HÜ 1
12	Electrical Engineering I: Direct Current VL 3					Process and Plant Engineering I UE 1
13	Networks and Electromagnetic Fields	Technical Thermodynamics I	Mathematics III	Signals and Systems	Thermal Separation Processes (part 1)	
14	Electrical Engineering I: Direct Current UE 2	Technical Thermodynamics I VL 2	Analysis III VL 2	Signals and Systems VL 3	Thermal Separation Processes VL 2	
15	Networks and Electromagnetic Fields	Technical Thermodynamics I HÜ 1	Analysis III UE 1	Signals and Systems HÜ 1	Thermal Separation Processes UE 2	
		Technical Thermodynamics I UE 1	Analysis III HÜ 1		Thermal Separation Processes HÜ 1	
16			Differential Equations 1 VL 2 Differential Equations 1 UE 1			Particle Technology and Solids Process Engineering
17	Mathematics I		Differential Equations 1 HÜ 1			Particle Technology I VL 2
18	Linear Algebra I VL 2				Chemical Reaction Engineering (part 1)	Particle Technology I UE 1
19	Linear Algebra I UE 1	Mechanics II: Mechanics of Materials		Bioprocess Engineering - Fundamentals	Chemical Reaction Engineering VL 2	Particle Technology I PR 2
	Linear Algebra I HÜ 1 Analysis I VL 2	Mechanics II VL 2		Bioprocess Engineering - VL 2	Chemical Reaction Engineering HÜ 2	
20	Analysis I UE 1	Mechanics II UE 2		Fundamentals		
21	Analysis I HÜ 1	Mechanics II HÜ 2	Mechanics III (Hydrostatics, Kinematics,	Bioprocess Engineering- HÜ 2		
22	•		Kinetics I)  Mechanics III VL 3	Fundamentals	Measurement Technology for Mechanical and	Bachelor Thesis
23			Mechanics III VL 3  Mechanics III UE 2	Bioprocess Engineering - PR 2 Fundamental Practical Course	Process Engineers	
24			Mechanics III HÜ 1	rundamentai Fracticai Couise	Measurement Technology for VL 2	
					Mechanical and Process Engineers  Measurement Technology for HÜ 1	
25	Mechanics I (Statics)	Mathematics II		Numeric and Matlab PR 2	Mechanical and Process Engineers	
26	Mechanics I VL 2  Mechanics I UE 2	Linear Algebra II VL 2 Linear Algebra II UE 1		Numeric and Matlab PR 2 Informatics for Process Engineers VL 2	Practical Course: Measurement and PR 2	
27	Mechanics I HÜ 1	Linear Algebra II HÜ 1	Fundamentals of Process Engineering	Informatics for Process Engineers VL 2	Control Systems	
28		Analysis II VL 2	Introduction into Process VL 2	<b>32</b> 2		
		Analysis II HÜ 1	Engineering/Bioprocess Engineering			
29		Analysis II UE 1	Fundamentals of material engineering VL 2			
30			Physical Chemistry			
31			Physical Chemistry VL 2			
32			Physical Chemistry PR 2			
		Programming in C				
33		- rogianniling in C				

Programming in C	VL	1
Programming in C	PR	1
Physics for Engineers (part 2)		

Nontechnical Complementary 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.