Course of Study General Engineering Science (German program) (Study Cohort w14)

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

Legend: Core qualification Compulsory Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Spec	ialisation Process Engineerin	9				Core qualification Elective Compulsory		cialisation Elective pulsory	Focus Elective Cor	npulsory Interdisciplinary co	mplement
LP	Semester 1 FormHrs.	wk Semester 2	FormHrs/w	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/w	Semester 6	FormHrs/w
1	Physics for Engineers (part 1)	Electrical Engineering II: Alternating	g Current	Technical Thermodynamics II		Physical Chemistry (part 2)		Introduction to Control Syste	ms	Foundations of Management	
2	Physics for Engineers VL 2	Networks and Basic Devices		Technical Thermodynamics II	VL 2	Environmental Assessment	VL 2	Introduction to Control System	ms VL 2	Introduction to Management	VL 3
3	Physics for Engineers UE 1	Electrical Engineering II: Alternating		Technical Thermodynamics II	HÜ 1	Fundamentals of Fluid Mechanics		Introduction to Control System	ms UE 2	Project Entrepreneurship	POL 2
	-	Current Networks and Basic Devices Electrical Engineering II: Alternating		Technical Thermodynamics II	UE 1	Fundamentals of Fluid Mechanics	VL 2				
4		Current Networks and Basic Devices				Exercises in Fluid Mechanics for	HÜ 1				
5	Chemistry	-				Process Engineering					
6	Chemistry I VL 2										
7	Chemistry II VL 2 Chemistry I HÜ 1	Fundamentals of Mechanical Engine	eering	Computer Engineering				Heat and Mass Transfer		Thermal Separation Processes (part 2)
	Chemistry II HÜ 1	Design		Computer Engineering	VL 3			Heat and Mass Transfer	VL 2	Separation Processes	PR 1
8		Fundamentals of Mechanical	VL 2	Computer Engineering	UE 1			Heat and Mass Transfer	UE 1	Chemical Reaction Engineering (part 2)
9		Engineering Design				Phase Equilibria Thermodynamics				Experimental Course Chemical	PR 2
5		Fundamentals of Mechanical Engineering Design	HÜ 2			Thermodynamics III	VL 2			Engineering	
10		Engineering Design				Thermodynamics III	UE 1			Process and Plant Engineering I	
11	Electrical Engineering I: Direct Current					Thermodynamics III	HÜ 1			Process and Plant Engineering I	VL 2
12	Networks and Electromagnetic Fields									Process and Plant Engineering I	HÜ 1
	Electrical Engineering I: Direct Current VL 3									Process and Plant Engineering I	UE 1
13	Networks and Electromagnetic Fields	Technical Thermodynamics I	VL 2	Mathematics III				Thermal Separation Process			
14	Electrical Engineering I: Direct Current UE 2 Networks and Electromagnetic Fields	Technical Thermodynamics I Technical Thermodynamics I	VL 2 HÜ 1	Analysis III Analysis III	VL 2 UE 1			Thermal Separation Processe Thermal Separation Processe			
15	Networks and Electionagnetic Fields	Technical Thermodynamics I	UE 1	Analysis III	HÜ 1	Signals and Systems		Thermal Separation Processo			
16				Differential Equations 1	VL 2	Signals and Systems	VL 3			Particle Technology and Solids P	Process
17	Mathematics I	-		Differential Equations 1	UE 1	Signals and Systems	HÜ 1			Engineering	
	Linear Algebra I VL 2	-		Differential Equations 1	HÜ 1					Particle Technology I	VL 2
18	Linear Algebra I UE 1							Chemical Reaction Engineer		Particle Technology I	UE 1
19	Linear Algebra I HÜ 1	Mechanics II: Mechanics of Materia						Chemical Reaction Engineer Chemical Reaction Engineer		Particle Technology I	PR 2
20	Analysis I VL 2	Mechanics II	VL 2						ing 110 2		
21	Analysis I UE 1	Mechanics II	UE 2	Mechanics III (Hydrostatics, Kinema	atics,	Practical Training in Process Engin	eering				
22	Analysis I HÜ 1			Kinetics I)		(part 1)		Practical Training in Proces	s Engineering	Bachelor Thesis	
				Mechanics III	VL 3	Practical Training in Measurement	PR 3	(part 2)	og		
23				Mechanics III	UE 2	Techniques		Measurement Methods in Pro	ocess VL 2		
				Mechanics III	HÜ 1			Engineering			
24											
25	Mechanics I (Statics)	atics) Mathematics II				Bioprocess Engineering - Fundamer	ntals				
26	Mechanics I VL 2	Linear Algebra II	VL 2			Bioprocess Engineering -	VL 2				
	Mechanics I UE 2	Linear Algebra II	UE 1	Fundamentals of Brooses Engineeri	ina	Fundamentals					
27	Mechanics I HÜ 1	Linear Algebra II	HÜ 1	Fundamentals of Process Engineeri	VL 2	Bioprocess Engineering- Fundamentals	HÜ 2				
28		Analysis II	VL 2 HÜ 1	Introduction into Process	VL 2 VL 2	Bioprocess Engineering -	PR 2				
29		Analysis II Analysis II	HU 1 UE 1	Engineering/Bioprocess Engineering		Fundamental Practical Course					
30				Fundamentals of Technical Drawing	VL 1						
31				and Materials							
	-			Fundamentals of Technical Drawing and Materials	HU 1						
32				and Materials							

33	Programming in C		Physical Chemistry (part 1)	
34	Programming in C	VL 1	Physical Chemistry	VL 2
- ·	Programming in C	PR 1	Physical Chemistry	PR 2
35	Physics for Engineers (part 2)			
36	Physics-Lab for ET/IIW-Engineers	PR 1		
	 s for Bachelors (from catalog			

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.