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

Sample course plan - Bachelor General Engineering Science (German program) (AIWBS) Specialisation Chemical Engineering

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Focus Compulsory

Interdisciplinary complement

LP	Semester 1 Fo	ormHrs/wk	Semester 2 FormHr	rs/wk	Semester 3	FormHrs/w	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Current		Technical Thermodynamics II		Physical Chemistry (part 2)		Introduction to Control Systems		Foundations of Management	
2	Physics for Engineers	/L 2	Networks and Basic Devices	_	Technical Thermodynamics II	VL 2	Environmental Assessment	VL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 4
3	Physics for Engineers L	JE 1	Electrical Engineering II: Alternating VL		Technical Thermodynamics II	HÜ 1	Fundamentals of Fluid Mechanics		Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
_			Current Networks and Basic Devices Electrical Engineering II: Alternating UE		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	*	/L 2										
7	Chemistry I VL 2 Chemistry I HÜ 1		Fundamentals of Mechanical Engineering		Computer Engineering				Heat and Mass Transfer		Thermal Separation Processes (part 2)	
		.∪ 1 ⊣Ü 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 (pa	art 2)
9			Engineering Design Fundamentals of Mechanical HÜ	2			Phase Equilibria Thermodynamics				Experimental Course Chemical	PR 2
			Engineering Design	-			Thermodynamics III	VL 2			Engineering	
10							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 Process and Plant Engineering I	HÜ 1 UE 1
13	 Electrical Engineering I: Direct Current \ Networks and Electromagnetic Fields 	/L 3	Technical Thermodynamics I	\dashv	Mathematics III				Thermal Separation Processes (pa	rt 1)	Troccoo and Frank Engineering F	OL 1
14	Electrical Engineering I: Direct Current L	JE 2	Technical Thermodynamics I VL		Analysis III	VL 2			Thermal Separation Processes	VL 3		
	Networks and Electromagnetic Fields		Technical Thermodynamics I HÜ		Analysis III	UE 1			Thermal Separation Processes	UE 2		
15			Technical Thermodynamics I UE	1	Analysis III	HÜ 1	Signals and Systems		Thermal Separation Processes	HÜ 1		
16					Differential Equations 1	VL 2	Signals and Systems Signals and Systems	VL 3 HÜ 1			Particle Technology and Solids Pro	ocess
17	Mathematics I				Differential Equations 1	UE 1 HÜ 1	Signals and Systems	по і			Engineering	
18	Linear Algebra I	/L 2			Differential Equations 1	HU I			Chemical Reaction Engineering (pa	rt 1)	Particle Technology I Particle Technology I	VL 2 UE 1
19	-	JE 1	Mechanics II: Mechanics of Materials						Chemical Reaction Engineering	VL 2	Particle Technology I	PR 2
		HÜ 1 √L 2	Mechanics II VL	2					Chemical Reaction Engineering	HÜ 2		
20	*	VL 2 JE 1	Mechanics II UE									
21		JÜ 1			Mechanics III (Hydrostatics, Kinemat	ics,	Practical Training in Process Engine	ering				
22					Kinetics I) Mechanics III	VL 3	(part 1) Practical Training in Measurement	PR 3	Practical Training in Process Engir	neering	Bachelor Thesis	
23					Mechanics III	UE 2	Techniques	rn 3	(part 2)			
					Mechanics III	HÜ 1			Measurement Methods in Process Engineering	VL 2		
24									Linginieening			
25	Mechanics I (Statics) Mechanics I	/L 2	Mathematics II Linear Algebra II VL 2	_			Bioprocess Engineering - Fundament Bioprocess Engineering -	VL 2				
26		JE 2	Linear Algebra II UE				Fundamentals	VL Z				
27		⊣Ü 1	Linear Algebra II HÜ		Fundamentals of Process Engineering	ng	Bioprocess Engineering-	HÜ 2				
28			Analysis II VL :	_	Environmental Technologie	VL 2	Fundamentals					
29			Analysis II HÜ	'	Introduction into Process Engineering/Bioprocess Engineering	VL 2	Bioprocess Engineering -	PR 2				
30			Analysis II UE	1	Fundamentals of Technical Drawing	VL 1	Fundamental Practical Course					
					and Materials							
31					Fundamentals of Technical Drawing	HÜ 1						
32					and Materials							
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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			

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.