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

Sample course plan - Bachelor General Engineering Science (German program) (AIWBS) Specialisation Energy and Environmental Engineering

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

LP	Semester 1 Form	nHrs/wk	Semester 2 FormHrs/wh	Semester 3	FormHrs/wl	Semester 4 Fo	rmHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Current	Technical Thermodynamics II		Foundations of Management		Introduction to Control Systems		Thermal Separation Processes (part 2)	
	Physics for Engineers VL	2	Networks and Basic Devices	Technical Thermodynamics II	VL 2	Introduction to Management V	L 4	Introduction to Control Systems	VL 2	Separation Processes	PR 1
2	Physics for Engineers UE	1	Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II	HÜ 1	Project Entrepreneurship PC	OL 2	Introduction to Control Systems	UE 2	Environmental Assessment and	
3			Current Networks and Basic Devices  Electrical Engineering II: Alternating UE 2	Technical Thermodynamics II	UE 1					Environmental Technology (part 2)	
			Current Networks and Basic Devices							Environmental Assessment	VL 2
4										Environmental Assessment	UE 1
5	Chemistry I VL									Practical Exercise Environmental Technology	PR 1
6	Chemistry II VL									Fundamentals of Materials Science	(part 2)
7	Chemistry I HÜ	1	Fundamentals of Mechanical Engineering	Computer Engineering		Mechanical Engineering: Design (part 2)	)	Heat and Mass Transfer		Fundamentals of Materials Science I	II VL 2
8	Chemistry II HÜ	1	Design	Computer Engineering	VL 3		DL 2	Heat and Mass Transfer	VL 2	Particle Technology and Solids Prod	
_			Fundamentals of Mechanical VL 2	Computer Engineering	UE 1	Mechanical Design Project II T	T 3	Heat and Mass Transfer	UE 1	Engineering	cess
9			Engineering Design							Particle Technology I	VL 2
10			Fundamentals of Mechanical HÜ 2			Fundamentals of Fluid Mechanics				Particle Technology I	UE 1
11	Electrical Engineering I: Direct Current		Engineering Design				L 2			Particle Technology I	PR 2
12	Networks and Electromagnetic Fields						Ü 1				
	Electrical Engineering I: Direct Current VL	3				Process Engineering					
13	Networks and Electromagnetic Fields		Technical Thermodynamics I	Mathematics III				Thermal Separation Processes (par			
14	Electrical Engineering I: Direct Current UE	2	Technical Thermodynamics I VL 2	Analysis III	VL 2			Thermal Separation Processes	VL 3	Bachelor Thesis	
15	Networks and Electromagnetic Fields		Technical Thermodynamics I HÜ 1 Technical Thermodynamics I UE 1	Analysis III Analysis III	UE 1 HÜ 1			Thermal Separation Processes Thermal Separation Processes	UE 2 HÜ 1		
16			reclinical melinodynamics i OL I	Differential Equations 1	VL 2	Electrical Machines		memai Sepaiation i locesses	110 1		
_				Differential Equations 1	UE 1		L 3				
17	Mathematics I			Differential Equations 1	HÜ 1		Ü 2				
18	Linear Algebra I VL Linear Algebra I UE							Gas and Steam Power Plants			
19	Linear Algebra I HÜ		Mechanics II: Mechanics of Materials					Gas and Steam Power Plants	VL 3		
20	Analysis I VL		Mechanics II VL 2					Gas and Steam Power Plants	HÜ 2		
21	Analysis I UE	1	Mechanics II UE 2	Mechanics III (Hydrostatics, Kinemat	ics						
22	Analysis I HÜ	1		Kinetics I)		Renewables and Energy Systems					
_				Mechanics III	VL 3		L 2				
23				Mechanics III Mechanics III	UE 2 HÜ 1	Energy Systems and Energy Industry V	L 2				
24				Weenanies III	110 1		L 1	Environmental Assessment and Environmental Technology (part 1)			
25	Mechanics I (Statics)		Mathematics II			Renewable Energy UI	E 1	Environmental Technologie	VL 2		
26	Mechanics I VL Mechanics I UE		Linear Algebra II VL 2 Linear Algebra II UE 1					Fundamentals of Materials Science			
27	Mechanics I UE  Mechanics I HÜ		Linear Algebra II UE 1  Linear Algebra II HÜ 1	Mechanical Engineering: Design (par	4.1)			Fundamentals of Materials Science I			
	110		Analysis II VL 2	Embodiment Design and 3D-CAD	VL 2			Physical and Chemical Basics of	VL 2		
28			Analysis II HÜ 1	Mechanical Design Project I	TT 3			Materials Science			
29			Analysis II UE 1								
30				Introduction into Energy and Environ	mental			Measurement Technology for Mecha	inical and		
31				Engineering				Process Engineers			
01				Introduction to Energy and	POL 4			Measurement Technology for	VL 2		
32				Environmental Engineering				Mechanical and Process Engineers			
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33		Programming in C	Physics-Lab for V I/BV I/EU I-	PH 2	measurement recnnology for	HU
33			<ul><li>Engineers</li></ul>		Mechanical and Process Engineers	
34		Programming in C VL			Practical Course: Measurement and	PF
•		Programming in C PR			Control Systems	
0.5	†	51 5			Control Systems	
35		Physics for Engineers (part 2)	_			
36		Physics-Lab for ET/IIW-Engineers PR				
36						

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.