Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w17)

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Energy and Enviromental Engineering

Specia	alisation Energy and Env	viroment	al Engineering						Core qualification Elective		alisation Elective	Focus Elective Co	Interdisciplinary	
	1								Compulsory	Comp	oulsory		complement	
LP	Semester 1	Formins	Wokemester 2 F	or h hrs/	Watemester 3	For h hrs,	Wakemester 4	Formin	/wskemester 5 F	orthirs	s/wskemester 6	Formit	/&kmester 7	For h hrs/w
1 2	Chemistry		Electrical Engineering	11:	Technical		Mechanical Enginee	ering:	Introduction to Contro	ol	Foundations of	;	Advanced Internsh	nip AIW/
2 3	Chemistry I	VL 2	Alternating Current Networks and Basic		Thermodynamics II		Design (part 2)		Systems		Management		GES	
J	Chemistry II	VL 2	Devices		Technical	VL 2	Team Project Design Methodology	PBL2		/L 2	Introduction to Management	VL 3		
	Chemistry I	HÜ 1	Electrical Engineering V	/L 3	Thermodynamics II Technical	uü ı	Mechanical Design	PBL3	Control Systems Introduction to	JE 2	Management Tu	torial HÜ 2		
	Chemistry II	HÜ 1	II: Alternating Current		Thermodynamics II	110 1	Project II	FDLS	Control Systems		Management Tu			
4			Networks and Basic Devices		Technical	UE 1								
5	-		Electrical Engineering L		Thermodynamics II		Fundamentals of Materials Science (
			II: Alternating Current	. 2			Fundamentals of							
			Networks and Basic				Materials Science II	VLZ						
6	-		Devices											
7							Fundamentals of Fluid Mechanics		Maat and Maga Transf					
	Electrical Engineerin Direct Current Netw		Fundamentals of Mechanical Engineerin	าต	Mathematics III	VL 2	Fundamentals of Fluid		Heat and Mass Transf Heat and Mass	r er /L 2	Environmental Technology (pa	art 2)		
	and Electromagnetic		Design	J	Analysis III	VL 2 UE 1	Mechanics		Transfer	/L 2	Practical Exercis			
	Fields		Fundamentals of V	/L 2	Analysis III	HÜ 1	Fluid Mechanics for	HÜ 2	Heat and Mass	JE 1	Environmental			
	Electrical Engineering I: Direct Current	VL 3	Mechanical Engineering Design		Analysis III Differential Equations		Process Engineering		Transfer		Technology			
8	Networks and			IÜ 2	1	VL Z				ΗÜ 1	Particle Techno	ology and		
9	Electromagnetic Fields	5	Mechanical	10 2	Differential Equations	UE 1			Transfer		Solids Process			
10	Electrical Engineering	UE 2	Engineering Design		1						Engineering			
11 12	I: Direct Current Networks and				Differential Equations	HÜ 1					Particle Technolo			
12	Electromagnetic Fields	5			1		Electrical Machines				Particle Technolo			
13							Electrical Machines	VL 3			Particle Technolo	ogy IPR 2		
14	Mathematics I		Technical Thermodynamics I				Electrical Machines	HÜ 2	Thermal Separation Processes		F			
15	Linear Algebra I	VL 2	-	/L 2	Mechanics III					/L 2	Environmental Technology			
16	Linear Algebra I	UE 1	Thermodynamics I		(Hydrostatics,				Processes		Environmental	VL 2		
	Linear Algebra I Analysis I	HÜ 1 VL 2		ΙÜ 1	Kinematics, Kinetics	; I)				JE 2	Assessment			
	Analysis I	VL 2 UE 1	Thermodynamics I		Mechanics III	VL 3			Processes		Environmental	UE 1		
	Analysis I	HÜ 1	Technical L Thermodynamics I	JE 1	Mechanics III	UE 2			Thermal Separation H Processes	ΗÜ 1	Assessment			
17		10 1	mennouynamics		Mechanics III	HÜ 1			Separation Processes	PR 1	Informatics for	Process		
18							Renewables and En	ergy	Copuration Processes 1		Engineers			
19 20			Mechanics II: Mechani	ics			Systems		Gas and Steam Power	•	Numeric and Ma	tlab PR 2	Bachelor Thesis	
20 21			of Materials				Renewable Energy	VL 2	Plants		Informatics for	VL 2		
22	Mechanics I (Statics				Computer Engineeri	-	Energy Systems and Energy Industry	VL 2	Gas and Steam Power \ Plants	/L 3	Process Enginee			
_	Mechanics I	VL 2		JE 2	Computer Engineering		Power Industry	VL 1	Gas and Steam Power	4Ü 1	Informatics for Process Enginee	UE 2		
23	Mechanics I	UE 2	Mechanics II H	iü 2	Computer Engineering	UE 1	Renewable Energy	UE 1	Plants	10 1	juicejiio			
	Mechanics I	HÜ 1					Renewable Energy	UE 1						
24	Meenanics	10 1												

Core gualification

Compulsory

Specialisation Compulsory Focus Compulsory

Thesis Compulsory

1 Linear Algebra II HU 1 Decision (part 2) 1 Analysis II VL 2 and 3D-CAD Process Engineers 1 Analysis II HÜ 1 Mechanical Design PBL3 2 Analysis II UE 1 Project I Mechanical and Process Engineers 2 Project I Fundamentals of Materials Science (part 1) Process Engineers 2 Project I Fundamentals of VL 2 Process Engineers 2 Project I Fundamentals of Materials Science (part 1) Process Engineers Process Engineers Practical Course: PR PR Materials Science I Physical and Chemical VL 2 Physical and Chemical VL 2 Basics of Materials Science Environmental Technology (part 1)	VL 2 HÜ 1 PR 2 VL 2
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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.