Course of Study General Engineering Science (English program) (Study Cohort w15)

Sample course plan - Bachelor General Engineering Science (English program) (GESBS) Specialisation Energy and Environmental 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 F	ormHrs/wk	Semester 2 Fo	ormHrs/wk	Semester 3	FormHrs/wl	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	Chemistry (GES)		Physics for Engineers (GES) (part 2)		Technical Thermodynamics II		Foundations of Management		Introduction to Control Systems		Thermal Separation Processes (part 2)	
	Chemistry I	VL 2	Physics-Lab for ET/ AIW/ GES	PR 1	Technical Thermodynamics II	VL 2	Introduction to Management	VL 4	Introduction to Control Systems	VL 2	Separation Processes	PR 1
2	Chemistry II	VL 2			Technical Thermodynamics II	HÜ 1	Project Entrepreneurship	POL 2	Introduction to Control Systems	UE 2	Environmental Assessment and	
3		HÜ 1	Fundamentals of Mechanical Engineering	na	Technical Thermodynamics II	UE 1					Environmental Technology (part 2)	
	Chemistry II	HÜ 1	Design Design	iig							Environmental Assessment	VL 2
4				VL 2							Environmental Assessment	UE 1
5			Engineering Design								Practical Exercise Environmental	PR 1
			Fundamentals of Mechanical	⊣Ü 2							Technology	
6			Engineering Design								Fundamentals of Materials Science	
7	Linear Algebra				Computer Engineering		Mechanical Engineering: Design (par	rt 2)	Heat and Mass Transfer		Fundamentals of Materials Science	II VL 2
8	Linear Algebra	VL 4			Computer Engineering	VL 3	Team Project Design Methodology	POL 2	Heat and Mass Transfer	VL 2	Particle Technology and Solids Pro	cess
_	Linear Algebra	HÜ 2			Computer Engineering	UE 1	Mechanical Design Project II	TT 3	Heat and Mass Transfer	UE 1	Engineering	
9	Linear Algebra	UE 2	Technical Thermodynamics I								Particle Technology I	VL 2
10			•	VL 2 ⊣Ü 1			Fundamentals of Fluid Mechanics				Particle Technology I	UE 1
11				ло I ЈЕ 1			Fundamentals of Fluid Mechanics	VL 2			Particle Technology I	PR 2
12			reclinical melinodynamics i	JE 1			Exercises in Fluid Mechanics for	HÜ 1				
							Process Engineering					
13					Mathematics III				Thermal Separation Processes (pa			
14					Analysis III	VL 2			Thermal Separation Processes	VL 3	Bachelor Thesis	
15	Electrical Engineering I		Mathematical Analysis		Analysis III	UE 1 HÜ 1			Thermal Separation Processes	UE 2 HÜ 1		
		VL 3		VL 4	Analysis III Differential Equations 1	VL 2	Electrical Machines		Thermal Separation Processes	HU I		
16	Electrical Engineering I	UE 2	Mathematical Analysis H	⊣Ü 2	Differential Equations 1	UE 1	Electrical Machines	VL 3				
17			Mathematical Analysis	JE 2	Differential Equations 1	HÜ 1	Electrical Machines	VL 3 HÜ 2				
18					·		Electrical Macrinics	110 2	Gas and Steam Power Plants			
19									Gas and Steam Power Plants	VL 3		
_									Gas and Steam Power Plants	HÜ 2		
20												
21	Mechanics I (GES) Mechanics I	VL 2			Mechanics III (GES) Mechanics III	HÜ 1						
22		HÜ 3			Mechanics III	UE 2	Renewables and Energy Systems Renewable Energy	VL 2				
23			Electrical Engineering II Electrical Engineering II	VL 3	Mechanics III	VL 3	Energy Systems and Energy Industry					
24				JE 2			Power Industry	VL 1	Environmental Assessment and Environmental Technology (part 1)			
25							Renewable Energy	UE 1	Environmental Technologie	VL 2		
26									Fundamentals of Materials Science	e (part 1)		
27	Physics for Engineers (GES) (part 1)				Mechanical Engineering: Design (pa	art 1)			Fundamentals of Materials Science			
28	Physics for Engineers	VL 2			Embodiment Design and 3D-CAD	VL 2			Physical and Chemical Basics of	VL 2		
	Physics for Engineers	UE 1			Mechanical Design Project I	TT 3			Materials Science			
29			Mechanics II (GES)									
30				VL 2	Introduction into Energy and Enviro	nmental			Measurement Technology for Mech	anical and		
31			Mechanics II	⊣Ü 2	Engineering				Process Engineers			
					Introduction to Energy and	POL 4			Measurement Technology for	VL 2		
32					Environmental Engineering				Mechanical and Process Engineers			
-					Dhysica Lah favVT/DVT/EUT	DD 0			Management Tanhanlang for	100 4		

33			Physics-Lab for V I/ BV I/ EU I	PH 2	weasurement recnnology for	HU I
33					Mechanical and Process Engineers	
34					Practical Course: Measurement and	PR 2
35	Programming in C				Control Systems	
36	Programming in C	VL 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.