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

Sample course plan - Bachelor General Engineering Science (English program) (GESBS) Specialisation Energy and Environmental Engineering

Legend:

Core qualification Compulsory

Core qualification Elective

Compulsory

Focus Compulsory

Interdisciplinary complement

Cher 2 Cher 3 Cher 4 5 6 7 Line: 10 11 12 13	nemistry (GES) nemistry I nemistry II nemistry II nemistry II nemistry II nemistry II near Algebra near Algebra near Algebra near Algebra	VL 2 VL 2 HÜ 1 HÜ 1	Physics for Engineers (GES) (part 2)  Physics-Lab for ET/IIW-Engineers PR 1  Fundamentals of Mechanical Engineering Design  Fundamentals of Mechanical VL 2 Engineering Design  Fundamentals of Mechanical HÜ 2 Engineering Design  Technical Thermodynamics I VL 2 Technical Thermodynamics I VL 2 Technical Thermodynamics I VL 1 Technical Thermodynamics I UE 1	Technical Thermodynamics II  Computer Engineering Computer Engineering Computer Engineering	VL 2 HŪ 1 UE 1	Foundations of Management Introduction to Management VL Project Entrepreneurship POL  Mechanical Engineering: Design (part 2) Team Project Design Methodology POL		Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems  Heat and Mass Transfer	VL 2 UE 2	Thermal Separation Processes (par Separation Processes  Environmental Assessment and Environmental Technology (part 2)  Environmental Assessment Environmental Assessment Practical Exercise Environmental Technology  Fundamentals of Materials Science Fundamentals of Materials Science	PR 1  VL 2  UE 1  PR 1
2 Cher Cher 3 Cher Cher 4 5 6 7 Line: 10 11 12 13	nemistry II nemistry II nemistry II nemistry II near Algebra near Algebra near Algebra	VL 2 HÜ 1 HÜ 1	Fundamentals of Mechanical Engineering  Design  Fundamentals of Mechanical VL 2  Engineering Design  Fundamentals of Mechanical HÜ 2  Engineering Design  Technical Thermodynamics I  Technical Thermodynamics I VL 2  Technical Thermodynamics I HÜ 1	Technical Thermodynamics II Technical Thermodynamics II  Computer Engineering Computer Engineering	HÛ 1 UE 1	Project Entrepreneurship POL  Mechanical Engineering: Design (part 2)		Introduction to Control Systems		Environmental Assessment and Environmental Technology (part 2) Environmental Assessment Environmental Assessment Practical Exercise Environmental Technology Fundamentals of Materials Science	VL 2 UE 1 PR 1
3 Cher 3 Cher 4 5 6 7 Line: 10 11 12 13	nemistry I nemistry II nemistry II near Algebra near Algebra near Algebra near Algebra	HÜ 1 HÜ 1	Design Fundamentals of Mechanical VL 2 Engineering Design Fundamentals of Mechanical HÜ 2 Engineering Design  Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	Technical Thermodynamics II  Computer Engineering  Computer Engineering	UE 1	Mechanical Engineering: Design (part 2)			UE 2	Environmental Technology (part 2) Environmental Assessment Environmental Assessment Practical Exercise Environmental Technology Fundamentals of Materials Science	VL 2 UE 1 PR 1
3 Cher 4 5 6 7 Line: 10 11 12 13	near Algebra near Algebra near Algebra near Algebra	HÜ 1	Design Fundamentals of Mechanical VL 2 Engineering Design Fundamentals of Mechanical HÜ 2 Engineering Design  Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	Computer Engineering Computer Engineering	VL 3			Heat and Mace Transfer		Environmental Assessment Environmental Assessment Practical Exercise Environmental Technology Fundamentals of Materials Science	VL 2 UE 1 PR 1
4 5 6 7 Lines 9 Lines 10 11 12 13	near Algebra near Algebra near Algebra	VL 4 HÜ 2	Design Fundamentals of Mechanical VL 2 Engineering Design Fundamentals of Mechanical HÜ 2 Engineering Design  Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	Computer Engineering				Heat and Mace Transfer		Environmental Assessment Practical Exercise Environmental Technology Fundamentals of Materials Science	UE 1 PR 1 (part 2)
5 6 7 Line: 9 Line: 10 11 12 13	near Algebra near Algebra	HÜ 2	Engineering Design Fundamentals of Mechanical HÜ 2 Engineering Design  Technical Thermodynamics I Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	Computer Engineering				Heat and Mace Transfer		Practical Exercise Environmental Technology Fundamentals of Materials Science	PR 1
6 7 Line: 8 Line: 9 Line: 10 11 12 13	near Algebra near Algebra	HÜ 2	Fundamentals of Mechanical HÜ 2 Engineering Design  Technical Thermodynamics I Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	Computer Engineering				Heat and Mace Transfer		Technology  Fundamentals of Materials Science	(part 2)
7 Line: 8 Line: 9 Line: 10 11 12 13	near Algebra near Algebra	HÜ 2	Technical Thermodynamics I	Computer Engineering				Host and Mace Transfer		Fundamentals of Materials Science	
7 Line: 8 Line: 9 Line: 10 11 12 13	near Algebra near Algebra	HÜ 2	Technical Thermodynamics I	Computer Engineering				Heat and Mace Transfer			
8 Line: 9 Line: 10 11 12 13	near Algebra near Algebra	HÜ 2	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	Computer Engineering				Host and Mace Transfer		rundamentals of Materials Science	II VL Z
9 Line: 10 11 12 13	near Algebra	HÜ 2	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1			Toom Project Design Methodology POL					
9 10 11 12 13			Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	Computer Engineering	LIF 1		L 2	Heat and Mass Transfer	VL 2	Particle Technology and Solids Pro	cess
10 11 12 13	near Algebra	UE 2	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1		02 .	Mechanical Design Project II TT	3	Heat and Mass Transfer	UE 1	Engineering	
11 12 13			Technical Thermodynamics I HÜ 1			Fundamentals of Fluid Mechanics				Particle Technology I	VL 2
12			Technical Thermodynamics I IIE 1			Fundamentals of Fluid Mechanics  VL				Particle Technology I	UE 1
13			Toomisa momodynamics i UE I			Exercises in Fluid Mechanics for HÜ				Particle Technology I	PR 2
						Process Engineering					
				Mathematics III				Thermal Separation Processes (pa	rt 1)		
				Analysis III	VL 2			Thermal Separation Processes	VL 3	Bachelor Thesis	
14				Analysis III	UE 1			Thermal Separation Processes	UE 2	bachelor mesis	
	ectrical Engineering I		Mathematical Analysis	Analysis III	HÜ 1			Thermal Separation Processes	HÜ 1		
10	ectrical Engineering I	VL 3	Mathematical Analysis VL 4	Differential Equations 1	VL 2	Electrical Machines					
17	ectrical Engineering I	UE 2	Mathematical Analysis HÜ 2 Mathematical Analysis UE 2	Differential Equations 1	UE 1	Electrical Machines VL	. 3				
18			Wallematical Analysis OE 2	Differential Equations 1	HÜ 1	Electrical Machines HÜ	2	Gas and Steam Power Plants			
								Gas and Steam Power Plants	VL 3		
19								Gas and Steam Power Plants	HÜ 2		
20											
21 Mec	echanics I (GES)			Mechanics III (GES)							
22 Mecl	echanics I	VL 2		Mechanics III	HÜ 1	Renewables and Energy Systems					
Mec	echanics I	HÜ 3		Mechanics III	UE 2	Renewable Energy VL	2				
23			Electrical Engineering II  Electrical Engineering II VL 3	Mechanics III	VL 3	Energy Systems and Energy Industry VL	. 2				
24			Electrical Engineering II VL 3 Electrical Engineering II UE 2			Power Industry VL	. 1	Environmental Assessment and			
25			CL 2			Renewable Energy UE	1	Environmental Technology (part 1)	VL 2		
								Environmental Technologie			
26								Fundamentals of Materials Science			
27 Phys	nysics for Engineers (GES) (part 1)			Mechanical Engineering: Design (p	<u> </u>			Fundamentals of Materials Science	I VL 2 VL 2		
28	nysics for Engineers	VL 2		Embodiment Design and 3D-CAD	VL 2			Physical and Chemical Basics of Materials Science	VL Z		
29 Phys	nysics for Engineers	UE 1	Mechanics II (GES)	Mechanical Design Project I	ТТ 3						
			Mechanics II VL 2								
30			Mechanics II HÜ 2	Introduction into Energy and Environmental Engineering	onmental			Measurement Technology for Mech Process Engineers	anical and		
31				Introduction to Energy and	POL 4			Measurement Technology for	VL 2		
					101 4						
32				Environmental Engineering				Mechanical and Process Engineers			

00		Physics-Lab for V I/BV I/EU I-PH 2	l .	measurement recnnology for	HU I
33		Engineers		Mechanical and Process Engineers	
34				Practical Course: Measurement and	PR 2
35	Programming in C			Control Systems	
36	Programming in C VL 1				
30	Programming in C 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.