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

Sample course plan C Bachelor General Engineering Science (English program) (GESBS) Specialisation Mechanical Engineering, Focus Materials in Engineering Sciences

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Compulsory

Specialisation Elective

Specialisation Elective

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Thesis Compulsory

Interdisciplinary complement

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LP	Semester 1	FormHrs/wl	Semester 2	FormHrs/wl	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		Mechanical Engineering: Design (par		Introduction to Control Systems		Foundations of Management	
2	Chemistry I	VL 2	Physics-Lab for ET/IIW-Engineers	PR 1	Technical Thermodynamics II	VL 2	Team Project Design Methodology	POL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 4
3	Chemistry II	VL 2	Fundamentals of Mechanical Enginee	erina	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	TT 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
-	Chemistry I	HÜ 1 HÜ 1	Design	9	Technical Thermodynamics II	UE 1		. 0				
4	Chemistry II	по і	Fundamentals of Mechanical	VL 2			Fundamentals of Materials Science (
5			Engineering Design				Fundamentals of Materials Science II	VL 2				
6			Fundamentals of Mechanical	HÜ 2			Advanced Mechanical Engineering D	esign				
7	Linear Algebra		Engineering Design		Computer Engineering		(part 2)		Measurement Technology for Mech	anical and	Structural Materials (part 2)	
	Linear Algebra	VL 4			Computer Engineering	VL 3	Advanced Mechanical Engineering	VL 2	Process Engineers		Fundamentals of Mechanical	VL 2
8	Linear Algebra	HÜ 2			Computer Engineering	UE 1	Design II		Measurement Technology for	VL 2	Properties of Materials	
	Linear Algebra	UE 2					Advanced Mechanical Engineering Design II	HÜ 2	Mechanical and Process Engineers			
									Measurement Technology for	HÜ 1		
9			Technical Thermodynamics I	\/I 0			Signals and Systems	\(I = 0	Mechanical and Process Engineers			
10			Technical Thermodynamics I Technical Thermodynamics I	VL 2 HÜ 1			Signals and Systems Signals and Systems	VL 3 HÜ 1	Practical Course: Measurement and Control Systems	PR 2	Enhanced Fundamentals of Material	s Science
11			Technical Thermodynamics I	UE 1			Signais and Systems	по і	Control Systems		Fundamentals of Metallic Materials	VL 2
12			recimical memodynamics i	OL I							Fundamentals of Ceramic and	VL 2
											Polymer Materials Fundamentals of Ceramic and	HÜ 1
13					Mathematics III				Numerical Mathematics I		Polymer Materials	HU I
14					Analysis III	VL 2			Numerical Mathematics I	VL 2	1 drymer waterials	
15	Electrical Engineering I		Mathematical Analysis		Analysis III Analysis III	UE 1 HÜ 1	Fluid Dynamics		Numerical Mathematics I	UE 2		
16	Electrical Engineering I	VL 3	Mathematical Analysis	VL 4	Differential Equations 1	VL 2	Fluid Mechanics	VL 3			Bachelor Thesis	
	Electrical Engineering I	UE 2	Mathematical Analysis	HÜ 2	Differential Equations 1	UE 1	Fluid Mechanics	HÜ 1			Dachelor mesis	-
17			Mathematical Analysis	UE 2	Differential Equations 1	HÜ 1						
18												
19									Structural Materials (part 1)			
20									Welding Technology	VL 3		
21	Mechanics I (GES)				Mechanics III (GES)		Mechanics IV (Kinetics II, Oscillation	e				
	Mechanics I	VL 2			Mechanics III	HÜ 1	Analytical Mechanics, Multibody Sys					
22	Mechanics I	HÜ 3			Mechanics III	UE 2	Mechanics IV	VL 3	Material Science Laboratory			
23			Electrical Engineering II		Mechanics III	VL 3	Mechanics IV	UE 2	Companion Lecture for Materials Science Laboratory	VL 2		
24			Electrical Engineering II	VL 3			Mechanics IV	HÜ 1	Material Science Laboratory	PR 4		
25			Electrical Engineering II	UE 2					material colonies East-atoly			
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26												
27	Physics for Engineers (GES) (part 1				Mechanical Engineering: Design (pa		Advanced Materials					
28	Physics for Engineers	VL 2			Embodiment Design and 3D-CAD	VL 2	Advanced Materials Characterization					
29	Physics for Engineers	UE 1	Mechanics II (GES)		Mechanical Design Project I	TT 3	Advanced Materials Design	VL 2				
30			Mechanics II	VL 2	Fundamentals of Materials Science	(nort 1)	Advanced Materials Design	HÜ 2				
			Mechanics II	HÜ 2	Fundamentals of Materials Science							
31					Physical and Chemical Basics of	VL 2						
32												
33	1				Materials Science							

34	Programming in C		Advanced Mechanical Engineering Design (part 1)				
35	-9	VL 1 PR 1	Advanced Mechanical Engineering VL 2 Design I Advanced Mechanical Engineering HÜ 2				
			Design I				

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.