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

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

Legend:

Core qualification Compulsory

Core qualification Elective

Compulsory

Focus Compulsory

Interdisciplinary complement

	I						Compaisory		bulsory			
LP	Semester 1	FormHrs/wk		FormHrs/wl	Semester 3	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 (part		Introduction to Control Systems		Foundations of Management	
2	Chemistry II	VL 2 VL 2	Physics-Lab for ET/IIW-Engineers	PR 1	Technical Thermodynamics II	VL 2 HÜ 1	Team Project Design Methodology Mechanical Design Project II	POL 2 TT 3	Introduction to Control Systems	VL 2 UE 2	Introduction to Management	VL 4 POL 2
3	Chemistry I	VL Z HÜ 1	Fundamentals of Mechanical Enginee	ring	Technical Thermodynamics II Technical Thermodynamics II	UE 1	Mechanical Design Project II	11 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
4	Chemistry II	HÜ 1	Design		, , , , , , , , , , , , , , , , , , , ,		Fundamentals of Materials Science (p	art 2)				
5			Fundamentals of Mechanical	VL 2			Fundamentals of Materials Science II	VL 2				
6			Engineering Design Fundamentals of Mechanical	HÜ 2			Advanced Mechanical Engineering Do	a lau				
-			Engineering Design				(part 2)	esign				
7	Linear Algebra Linear Algebra	VL 4			Computer Engineering Computer Engineering	VL 3	Advanced Mechanical Engineering	VL 2	Measurement Technology for Mech Process Engineers	anical and	Structural Materials (part 2) Fundamentals of Mechanical	VL 2
8	Linear Algebra Linear Algebra	VL 4 HÜ 2			Computer Engineering Computer Engineering	VL 3 UE 1	Design II		Measurement Technology for	VL 2	Properties of Materials	VL 2
	Linear Algebra	UE 2			- componer angineering		Advanced Mechanical Engineering Design II	HÜ 2	Mechanical and Process Engineers			
9			Technical Thermodynamics I				Signals and Systems		Measurement Technology for	HÜ 1		
			Technical Thermodynamics I	VL 2			Signals and Systems Signals and Systems	VL 3	Mechanical and Process Engineers Practical Course: Measurement and	DD 2		
10			Technical Thermodynamics I	HÜ 1			Signals and Systems	HÜ 1	Control Systems	111 2	Enhanced Fundamentals of Materials Fundamentals of Metallic Materials	VL 2
11			Technical Thermodynamics I	UE 1							Fundamentals of Metallic Materials Fundamentals of Ceramic and	VL 2
12											Polymer Materials	
13					Mathematics III				Numerical Mathematics I		Fundamentals of Ceramic and	HÜ 1
14					Analysis III	VL 2			Numerical Mathematics I	VL 2	Polymer Materials	
15	Electrical Engineering I		Mathematical Analysis		Analysis III	UE 1 HÜ 1	Fluid Dynamics		Numerical Mathematics I	UE 2		
16	Electrical Engineering I	VL 3	Mathematical Analysis	VL 4	Analysis III Differential Equations 1	HU 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 Thesis	
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, Oscillations	i,				
22	Mechanics I	VL 2			Mechanics III	HÜ 1	Analytical Mechanics, Multibody Syst		Material Science Laboratory			
23	Mechanics I	HÜ 3	Electrical Engineering II		Mechanics III	UE 2	Mechanics IV	VL 3	Companion Lecture for Materials	VL 2		
			Electrical Engineering II	VL 3	Mechanics III	VL 3	Mechanics IV Mechanics IV	UE 2 HÜ 1	Science Laboratory			
24			Electrical Engineering II	UE 2			inconaince iv		Material Science Laboratory	PR 4		
25												
26												
27	Physics for Engineers (GES) (part 1				Mechanical Engineering: Design (pa	rt 1)	Electrical Machines					
28	Physics for Engineers	VL 2			Embodiment Design and 3D-CAD	VL 2	Electrical Machines	VL 3				
29	Physics for Engineers	UE 1	Mechanics II (GES)		Mechanical Design Project I	TT 3	Electrical Machines	HÜ 2				
30			Mechanics II	VL 2	Fundamentals of Materials Science	(part 1)						
31			Mechanics II	HÜ 2	Fundamentals of Materials Science I							
					Physical and Chemical Basics of	VL 2						
32					Materials Science							
33												

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.