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

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

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LP	Semester 1	FormHrs/wl	k Semester 2 FormHrs/	wk Semester 3	FormHrs/w	Semester 4 Fo	ormHrs/wk	Semester 5	FormHrs/w	Semester 6	FormHrs/wk
1	Chemistry (GES)		Physics for Engineers (GES) (part 2)	Technical Thermodynamics II		Mechanical Engineering: Design (part 2	2)	Introduction to Control Systems		Foundations of Management	
2 3 4 5	Chemistry II Chemistry II Chemistry II Chemistry II	VL 2 VL 2 HÜ 1 HÜ 1	Physics-Lab for ET/ AIW/ GES PR 1 Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical VL 2 Engineering Design	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1 UE 1	, , , , , , , , , , , , , , , , , , , ,	<u> </u>	Introduction to Control Systems Introduction to Control Systems	VL 2 UE 2	Introduction to Management Project Entrepreneurship	VL 4 POL 2
6			Fundamentals of Mechanical HÜ 2 Engineering Design			Advanced Mechanical Engineering Des	sign				
7	Linear Algebra		Engineering Design	Computer Engineering		(part 2) Advanced Mechanical Engineering	VI 2	Measurement Technology for Mech	anical and	Structural Materials (part 2)	
8	Linear Algebra Linear Algebra Linear Algebra	VL 4 HÜ 2 UE 2		Computer Engineering Computer Engineering	VL 3 UE 1	Design II Advanced Mechanical Engineering Design II	HÜ 2	Process Engineers Measurement Technology for Mechanical and Process Engineers Measurement Technology for	VL 2	Fundamentals of Mechanical Properties of Materials	VL 2
9			Technical Thermodynamics I			Signals and Systems		Mechanical and Process Engineers			
10			Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1				VL 3 HÜ 1	Practical Course: Measurement and Control Systems	PR 2	Enhanced Fundamentals of Materials	
11			Technical Thermodynamics I UE 1			,		•		Fundamentals of Metallic Materials Fundamentals of Ceramic and	VL 2 VL 2
12										Polymer Materials	
13				Mathematics III				Numerical Mathematics I		Fundamentals of Ceramic and Polymer Materials	HÜ 1
14				Analysis III Analysis III	VL 2 UE 1			Numerical Mathematics I Numerical Mathematics I	VL 2 UE 2	Folymer Materials	
15	Electrical Engineering I		Mathematical Analysis	Analysis III	HÜ 1	Fluid Dynamics		Numerical Mathematics I	OE 2		
16	Electrical Engineering I	VL 3	Mathematical Analysis VL 4	Differential Equations 1	VL 2		VL 3			Bachelor Thesis	
17	Electrical Engineering I	UE 2	Mathematical Analysis HÜ 2 Mathematical Analysis UE 2	Differential Equations 1 Differential Equations 1	UE 1 HÜ 1	Fluid Mechanics F	HÜ 1				
18				Differential Equations 1	HU I						
19								Structural Materials (part 1)			
20								Welding Technology	VL 3		
21	Mechanics I (GES)			Mechanics III (GES)		Mechanics IV (Kinetics II, Oscillations,					
22	Mechanics I	VL 2		Mechanics III	HÜ 1	Analytical Mechanics, Multibody System		Material Science Laboratory			
23	Mechanics I	HÜ 3	Electrical Engineering II	Mechanics III Mechanics III	UE 2 VL 3		VL 3 UE 2	Companion Lecture for Materials	VL 2		
24			Electrical Engineering II VL 3	Wechanics in	VL 3		HÜ 1	Science Laboratory Material Science Laboratory	PR 4		
25			Electrical Engineering II UE 2					Material Science Laboratory	111 4		
26											
27	Physics for Engineers (GES) (part 1)		Mechanical Engineering: Design (p	part 1)	Fundamentals of Production and Quality	v				
28	Physics for Engineers	VL 2		Embodiment Design and 3D-CAD	VL 2	Management	<u> </u>				
29	Physics for Engineers	UE 1	Mechanics II (GES)	Mechanical Design Project I	TT 3		VL 2				
30			Mechanics II (GES) VL 2	Fundamentals of Materials Science	(nart 1)	Quality Management	VL 2				
_			Mechanics II HÜ 2	Fundamentals of Materials Science	<u> </u>						
31	-			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.