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 Energy Systems Legend: Core qualification Compulsory Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

	ialisation Mechanical En				3 - F - 3 - 7 (-)		Core qualification Elective Compulsory	Spe	cialisation Elective	Focus Elective Con	npulsory Interdisciplinary co	mplement
LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester	4	FormHrs/w	Semester 5	FormHrs/wł	Semester 6	FormHrs/wl
1	Chemistry (GES)		Physics for Engineers (GES) (part 2)		Technical Thermodynamics II		Mechanic	al Engineering: Design (par	t 2)	Introduction to Control System	ems	Foundations of Management	
2 3 4 5	Chemistry I Chemistry II Chemistry I Chemistry II	VL 2 VL 2 HÜ 1 HÜ 1	Fundamentals of Mechanical Engineer Design Fundamentals of Mechanical Engineering Design	PR 1 ing VL 2 HÜ 2	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1 UE 1	Mechanic Fundame	al Design Project II Itals of Materials Science (p Itals of Materials Science II	VL 2	Introduction to Control Syste		Introduction to Management Project Entrepreneurship	VL 4 POL 2
6			Engineering Design				(part 2)	Mechanical Engineering D	esign				
7	Linear Algebra				Computer Engineering		-	Mechanical Engineering	VL 2	Measurement Technology for Process Engineers	or Mechanical and	Reciprocating Machinery (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 Design II	Mechanical Engineering	HÜ 2	Measurement Technology for Mechanical and Process En Measurement Technology for	igineers	Intemal Combustion Engines I Intemal Combustion Engines I	VL 2 HÜ 1
9			Technical Thermodynamics I				Signals a	nd Systems		Mechanical and Process En			
10	-			VL 2			-	nd Systems	VL 3	Practical Course: Measurem	ent and PR 2		
11	-			HÜ 1 UE 1			Signals a	nd Systems	HÜ 1	Control Systems		Bachelor Thesis	
12	-												
13	-				Mathematics III					Gas and Steam Power Plan	ts		
14	-				Analysis III	VL 2				Gas and Steam Power Plant			
15	Electrical Engineering I		Mathematical Analysis		Analysis III	UE 1	Fluid Dyn	amice		Gas and Steam Power Plant	s HÜ 2		
	Electrical Engineering I	VL 3	· · · · · · · · · · · · · · · · · · ·	VL 4	Analysis III Differential Equations 1	HÜ 1 VL 2	Fluid Med		VL 3				
16	Electrical Engineering I	UE 2		HÜ 2	Differential Equations 1	UE 1	Fluid Med	hanics	HÜ 1				
17	-		Mathematical Analysis	UE 2	Differential Equations 1	HÜ 1							
18	_												
19										Computational Fluid Dynami			
20										Computational Fluid Dynami Computational Fluid Dynami			
21	Mechanics I (GES)				Mechanics III (GES)			s IV (Kinetics II, Oscillation					
22	Mechanics I	VL 2 HÜ 3			Mechanics III Mechanics III	HÜ 1 UE 2	Analytica Mechanic	Mechanics, Multibody Sys	VL 3				
23	Mechanics I	HU 3	Electrical Engineering II		Mechanics III	VL 3	Mechanic		UE 2				
24				VL 3			Mechanic	s IV	HÜ 1				
25			Electrical Engineering II	UE 2						Heat Transfer			
26	-									Heat Transfer	VL 3		
27	Physics for Engineers (GES) (part 1)				Mechanical Engineering: Design (pa	art 1)	Fundame	ntals of Production and Qual	ity	Heat Transfer	HÜ 1		
28	Physics for Engineers	VL 2			Embodiment Design and 3D-CAD	VL 2	Managem						
	Physics for Engineers	UE 1	Mechanics II (GES)		Mechanical Design Project I	TT 3		n Process Organization	VL 2				
29			. ,	VL 2	Employee the state of the state of the	(Quality M	anagement	VL 2				
30				HÜ 2	Fundamentals of Materials Science	u ,							
31					Physical and Chemical Basics of	VL 2				Reciprocating Machinery (p			
32					Materials Science					Fundamentals of Reciprocat Engines and Turbomachiner	-		
					Materials Offende					Reciprocating Engines	yran		

	-			Fundamentals of Reciprocating HŪ 1 Engines and Turbomachinery - Part Reciprocating Engines
33				
34			Advanced Mechanical Engineering Design	
35		Programming in C	(part 1)	
36		Programming in C VL 1	Advanced Mechanical Engineering VL 2 Design I	
00		Programming in C PR 1	Advanced Mechanical Engineering HÜ 2 Design I	
	Nontechnical Complementary Courses	s 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.