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

Sample course plan C 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 Eng					- /	Core qualification Elective Compulsory	Spe	ecialisation Elective	Focus Elective Co	mpulsory	Interdisciplinary com	plement
LP	Semester 1 Fo	ormHrs/wk	Semester 2	FormHrs/w	Semester 3	FormHrs/wk	Semester 4	FormHrs/w	k Semester 5	FormHrs/w	k Semester 6		FormHrs/w
1	Chemistry (GES)		Physics for Engineers (GES) (part 2)		Technical Thermodynamics II		Mechanical Engineering: Design (par	t 2)	Introduction to Control Syst	ems	Foundations	of Management	
2 3 4 5	Chemistry II V Chemistry I H	/L 2 /L 2 - łÜ 1 łÜ 1	Physics-Lab for ET/ AIW/ GES Fundamentals of Mechanical Engineer Design Fundamentals of Mechanical Engineering Design	VL 2	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1 UE 1	Team Project Design Methodology Mechanical Design Project II Fundamentals of Materials Science (I Fundamentals of Materials Science II		Introduction to Control Syste			to Management apreneurship	VL 4 POL 2
6			Fundamentals of Mechanical Engineering Design	HÜ 2			Advanced Mechanical Engineering D (part 2)	esign					
7	Linear Algebra				Computer Engineering		Advanced Mechanical Engineering	VL 2	Measurement Technology f	or Mechanical and		ng Machinery (part 2)	
8	Linear Algebra H	/L 4 IÜ 2 JE 2			Computer Engineering Computer Engineering	VL 3 UE 1	Design II Advanced Mechanical Engineering Design II		Process Engineers Measurement Technology for Mechanical and Process En Measurement Technology for	ngineers		ibustion Engines I ibustion Engines I	VL 2 HÜ 1
9			Technical Thermodynamics I				Signals and Systems		Mechanical and Process Er				
10			Technical Thermodynamics I	VL 2			Signals and Systems	VL 3	Practical Course: Measuren	ent and PR 2			
11			Technical Thermodynamics I Technical Thermodynamics I	HÜ 1 UE 1			Signals and Systems	HÜ 1	Control Systems		Bachelor Th	esis	
12													
13	-				Mathematics III				Gas and Steam Power Plan	ts			
14					Analysis III	VL 2			Gas and Steam Power Plan	s VL 3			
15	Electrical Engineering I		Mathematical Analysis		Analysis III	UE 1 HÜ 1	Fluid Dynamics		Gas and Steam Power Plan	s HÜ 2			
16 17 18	Electrical Engineering I V	/L 3 JE 2	Mathematical Analysis Mathematical Analysis Mathematical Analysis	VL 4 HÜ 2 UE 2	Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	HÜ 1 VL 2 UE 1 HÜ 1	Fluid Mechanics Fluid Mechanics	VL 3 HÜ 1					
19									Computational Fluid Dynam	ics I			
20	-								Computational Fluid Dynam	ics I VL 2			
21	Mechanics I (GES)				Mechanics III (GES)		Mechanics IV (Kinetics II, Oscillation	s.	Computational Fluid Dynam	ics I HÜ 2			
22		/L 2			Mechanics III	HÜ 1	Analytical Mechanics, Multibody Sys						
23	Mechanics I H	IÜ 3	Electrical Engineering II		Mechanics III	UE 2	Mechanics IV	VL 3					
			Electrical Engineering II	VL 3	Mechanics III	VL 3	Mechanics IV Mechanics IV	UE 2 HÜ 1					
24			Electrical Engineering II	UE 2			Weenanies iv	110 1					
25									Heat Transfer Heat Transfer	VL 3			
26									Heat Transfer	HÜ 1			
27	Physics for Engineers (GES) (part 1)	/L 2			Mechanical Engineering: Design (pa		Advanced Materials	<u>)/ 0</u>					
28	, ,	/L 2 JE 1 -			Embodiment Design and 3D-CAD Mechanical Design Project I	VL 2 TT 3	Advanced Materials Characterization Advanced Materials Design	VL 2 VL 2					
29			Mechanics II (GES)				Advanced Materials Design	HÜ 2					
30			Mechanics II Mechanics II	VL 2 HÜ 2	Fundamentals of Materials Science	<u> </u>							
31			Moonanios II	110 2	Fundamentals of Materials Science				Reciprocating Machinery (p				
32					Physical and Chemical Basics of	VL 2			Fundamentals of Reciproca	-			
					Materials Science				Engines and Turbomachine	y - Part			

	-			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.