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 Theoretical Mechanical Engineering Legend:

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

pec	ialisation Mechanical Engine		lechai	lical Engineering		Core qualification Elective Compulsory		cialisation Elective npulsory	Focus Elective Con		nary complement
LP	Semester 1 FormHrs	/wk Semester 2 F	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/w	K Semester 5	FormHrs/wł	k Semester 6	FormHrs/
1	Chemistry (GES)	Physics for Engineers (GES) (part 2)		Technical Thermodynamics II		Mechanical Engineering: Design (par	rt 2)	Introduction to Control Syst	ems	Foundations of Manageme	nt
2 3 4 5	Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1	Fundamentals of Mechanical Engineer Design Fundamentals of Mechanical Engineering Design	PR 1 ring VL 2 HÜ 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 (j Fundamentals of Materials Science II	VL 2	Introduction to Control Syste		Introduction to Managemen Project Entrepreneurship	nt VL 4 POL 2
6	Linear Alashar	Engineering Design		Ormentar Frankright		Advanced Mechanical Engineering D (part 2)	lesign	Manager (Table)	- Markeyland and	Mathematica D/	
7	Linear Algebra Linear Algebra VL 4	-		Computer Engineering	VL 3	Advanced Mechanical Engineering	VL 2	Measurement Technology f Process Engineers	or Mechanical and	Mathematics IV Complex Functions	VL 2
8	Linear Algebra VL 4 Linear Algebra HÜ 2 Linear Algebra UE 2			Computer Engineering Computer Engineering	UE 1	Design II Advanced Mechanical Engineering Design II	HÜ 2	Measurement Technology for Mechanical and Process En	ngineers	Complex Functions Complex Functions	UE 1 HÜ 1
9		Technical Thermodynamics I				Signals and Systems		Measurement Technology for Mechanical and Process Er		Differential Equations 2	VL 2
10 11		Technical Thermodynamics I	VL 2 HÜ 1			Signals and Systems Signals and Systems	VL 3 HÜ 1	Practical Course: Measuren Control Systems		Differential Equations 2 Differential Equations 2	UE 1 HÜ 1
12		Technical Thermodynamics I	UE 1								
13				Mathematics III				Simulation of Dynamic Sys	tems and	Bachelor Thesis	
14				Analysis III	VL 2			Reliability	tems VL 2		
15	Electrical Engineering I	Mathematical Analysis		Analysis III Analysis III	UE 1 HÜ 1	Fluid Dynamics		Simulation of Dynamic Sys Reliability of Dynamic Syst			
16	Electrical Engineering I VL 3	Mathematical Analysis	VL 4	Differential Equations 1	VL 2	Fluid Mechanics	VL 3	Simulation of Dynamic Sys			
17	Electrical Engineering I UE 2		HÜ 2 UE 2	Differential Equations 1 Differential Equations 1	UE 1 HÜ 1	Fluid Mechanics	HÜ 1	Reliability of Dynamic Syst	ems UE 1		
18 19								Advanced Mechanical Desi	an Proiect		
20								Advanced Mechanical Desi			
21	Mechanics I (GES)			Mechanics III (GES)		Mechanics IV (Kinetics II, Oscillation	s,				
22	Mechanics I VL 2	-		Mechanics III	HÜ 1	Analytical Mechanics, Multibody Sys					
23	Mechanics I HÜ 3	Electrical Engineering II		Mechanics III	UE 2	Mechanics IV	VL 3				
24			VL 3	Mechanics III	VL 3	Mechanics IV Mechanics IV	UE 2 HÜ 1				
			UE 2					Heat Transfer			
25 26								Heat Transfer Heat Transfer	VL 3		
27	Physics for Engineers (GES) (part 1)			Mechanical Engineering: Design (page 1)	art 1)	Fundamentals of Production and Qua	lity	Heat Transfer	HÜ 1		
28	Physics for Engineers VL 2			Embodiment Design and 3D-CAD	VL 2	Management					
29	Physics for Engineers UE 1	Mechanics II (GES)		Mechanical Design Project I	Π 3	Production Process Organization Quality Management	VL 2 VL 2				
30			VL 2	Fundamentals of Materials Science	(part 1)						
31		Mechanics II	HÜ 2	Fundamentals of Materials Science						-	
32	-			Physical and Chemical Basics of Materials Science	VL 2						
33				Materials Science							

34				Advanced Mechanical Engineering Design
35		Programming in C		(part 1) Advanced Mechanical Engineering VL 2 Design I
36	1	Programming in C	VL 1	
		Programming in C	PR 1	Advanced Mechanical Engineering HÜ 2
				Design I
	Nontechnical Complementary Courses	s for Bachelors (from catalog	gue) - 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.