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 Energy Systems

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Compulsory

Specialisation Elective

Specialisation Elective

Compulsory

Compulsory

Focus Compulsory

Interdisciplinary complement

Compulsory

LP	Semester 1 F	ormHrs/wk	Semester 2 FormHrs/w	Semester 3 FormHrs/v	wk Semester 4 FormHrs/	wk Semester 5 FormHrs/v	Vk Semester 6 FormHrs/wk
1	Chemistry (GES)		Physics for Engineers (GES) (part 2)	Technical Thermodynamics II	Mechanical Engineering: Design (part 2)	Introduction to Control Systems	Foundations of Management
2		VL 2 VL 2	Physics-Lab for ET/IIW-Engineers PR 1	Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1	Team Project Design Methodology POL 2 Mechanical Design Project II TT 3	Introduction to Control Systems VL 2 Introduction to Control Systems UE 2	Introduction to Management VL 4 Project Entrepreneurship POL 2
3		HÜ 1	Fundamentals of Mechanical Engineering	Technical Thermodynamics II UE 1	Medianida Bedigit Toject ii 11 0	initiodabilion to conitor dystems — GE E	1 of the first character of the first charact
4	Chemistry II	HÜ 1	Design		Fundamentals of Materials Science (part 2)		
5			Fundamentals of Mechanical VL 2 Engineering Design		Fundamentals of Materials Science II VL 2		
6			Fundamentals of Mechanical HÜ 2		Advanced Mechanical Engineering Design		
7	Linear Algebra		Engineering Design	Computer Engineering	(part 2)	- Measurement Technology for Mechanical and	Reciprocating Machinery (part 2)
8	Linear Algebra	VL 4		Computer Engineering VL 3	Advanced Mechanical Engineering VL 2 Design II	Process Engineers	Internal Combustion Engines I VL 2
	Linear Algebra	HÜ 2		Computer Engineering UE 1	Advanced Mechanical Engineering HÜ 2	Measurement Technology for VL 2	Internal Combustion Engines I HÜ 1
	Linear Algebra	UE 2			Design II	Mechanical and Process Engineers Measurement Technology for HÜ 1	
9			Technical Thermodynamics I		Signals and Systems	Measurement Technology for HÜ 1 Mechanical and Process Engineers	
10			Technical Thermodynamics I VL 2		Signals and Systems VL 3	Practical Course: Measurement and PR 2	
11			Technical Thermodynamics I HÜ 1		Signals and Systems HÜ 1	Control Systems	Bachelor Thesis
			Technical Thermodynamics I UE 1				Dathelor Hesis
12							
13				Mathematics III		Gas and Steam Power Plants	
14				Analysis III VL 2 Analysis III UE 1		Gas and Steam Power Plants VL 3 Gas and Steam Power Plants HÜ 2	
15	Electrical Engineering I		Mathematical Analysis	Analysis III UE 1	Fluid Dynamics	Gas and Steam Fower Frants no 2	
16	Electrical Engineering I	VL 3	Mathematical Analysis VL 4	Differential Equations 1 VL 2	Fluid Mechanics VL 3		
17	Electrical Engineering I	UE 2	Mathematical Analysis HÜ 2	Differential Equations 1 UE 1	Fluid Mechanics HÜ 1		
-			Mathematical Analysis UE 2	Differential Equations 1 HÜ 1			
18							
19						Computational Fluid Dynamics I Computational Fluid Dynamics I VL 2	
20						Computational Fluid Dynamics I VL 2 Computational Fluid Dynamics I HÜ 2	
21	Mechanics I (GES)			Mechanics III (GES)	Mechanics IV (Kinetics II, Oscillations,		
22		VL 2		Mechanics III HÜ 1	Analytical Mechanics, Multibody Systems)		
23	Mechanics I	HÜ 3	Electrical Engineering II	Mechanics III UE 2 Mechanics III VL 3	Mechanics IV VL 3 Mechanics IV UE 2		
24			Electrical Engineering II VL 3	Wechanics III VL 3	Mechanics IV HÜ 1		
25			Electrical Engineering II UE 2			Heat Transfer	
_						Heat Transfer VL 3	
26						Heat Transfer HÜ 1	
27	Physics for Engineers (GES) (part 1)			Mechanical Engineering: Design (part 1)	Electrical Machines		
28	· ·	VL 2 UE 1		Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I TT 3	Electrical Machines VL 3 Electrical Machines HÜ 2		
29	Thy sics for Engineers	02 1	Mechanics II (GES)	Modification Design Florect 11 3	License internet		
30			Mechanics II VL 2	Fundamentals of Materials Science (part 1)			
31			Mechanics II HÜ 2	Fundamentals of Materials Science I VL 2		Reciprocating Machinery (part 1)	
32				Physical and Chemical Basics of VL 2		Fundamentals of Reciprocating VL 1	
52				Materials Science		Engines and Turbomachinery - Part	
	I					Paginmenting Engines	•

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