Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w16)

Sample course plan C Bachelor General Engineering Science (English program, 7 semester) (GESBS(7)) Specialisation Mechanical Engineering, Focus Energy Systems

Legenc:

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

Focus Elective Compulsory

Interdisciplinary complement

Compulsory

LP	Semester 1 Fe	ormilirs/	Welemester 2 Formers	/v&lemester 3 Forth	rirs/	Welemester 4	Formirs	Welemester 5 Formers	s/wSemester 6 For	rı ld ırs/v	Semester 7 Formits/w
1	Chemistry (GES) Chemistry I	L 2	Fundamentals of Mechanical Engineering Design	Technical Thermodynamics		Mechanical Engineerin Design (part 2)	ıg:	Introduction to Control Systems	Foundations of Manageme Introduction to VL		Advanced Internship GES
3	•	L 2	Fundamentals of VL 2		2	Team Project Design	PBL2	Introduction to Control VL 2	Management		
	Chemistry I H	lÜ 1	Mechanical Engineering Design	Thermodynamics II Technical HÜ	1	Methodology Mechanical Design	TT 3	Systems Introduction to Control UE 2	Management Tutorial HÜ	J 2	
	Chemistry II H	lÜ 1		Thermodynamics II		Project II	11 0	Systems			
5			Mechanical Engineering Design	Technical UE 1 Thermodynamics II		Fundamentals of Mater Science (part 2)	rials				
						Fundamentals of Materials Science II	VL 2				
6 7						Fluid Dynamics					
8	Linear Algebra		Technical Thermodynamics I	Mathematics III		Fluid Mechanics	VL 3	Measurement Technology for Mechanical and Process	Advanced Mechanical Engineering Design (part 2	2)	
9	3	L 4 IÜ 2	Technical VL 2 Thermodynamics I	Analysis III VL 2		Fluid Mechanics	HÜ 2	Engineers	Advanced Mechanical VL		
	ŭ	E 2	Technical HÜ 1	Analysis III UE Analysis III HÜ					Engineering Design II		
	Emodi / ligobia		Thermodynamics I	Differential Equations 1 VL 2				Technology for Mechanical and Process	Advanced Mechanical HÜ Engineering Design II	J 2	
10			Technical UE 1 Thermodynamics I	Differential Equations 1 UE	1			Engineers	Engineering Design II		
11			The mody named t	Differential Equations 1 HÜ	1			Measurement HÜ 1 Technology for	Reciprocating Machinery (part 2)		
12						Mechanics IV (Kinetics	: 11	Mechanical and Process	Internal Combustion VL	2	
						Oscillations, Analytica		Engineers BD 0	Engines I		
						Mechanics, Multibody Systems)		Practical Course: PR 2 Measurement and	Internal Combustion HÜ Engines I) 1	
						Mechanics IV	VL 3	Control Systems	g		
13 14			Mathematical Analysis			Mechanics IV	UE 2	Advanced Mechanical			
15			Mathematical Analysis VL 4			Mechanics IV	HÜ 1	Engineering Design (part 1)	Advanced Materials		
	Electrical Engineering I		Mathematical Analysis HÜ 2	Mechanics III (GES)				Advanced Mechanical VL 2 Engineering Design I	Advanced Materials VL Characterization	2	
	Electrical Engineering I V		Mathematical Analysis UE 2	Mechanics III HÜ Mechanics III UE 2				Advanced Mechanical HÜ 2	Advanced Materials VL	2	
	Electrical Engineering 1 0	E 2		Mechanics III VL 3				Engineering Design I	Design		
16				moonamoo m				Heat Transfer	Advanced Materials HÜ Design	2	
17 18								Heat Transfer VL 3	Design		
19						Signals and Systems		Heat Transfer HÜ 2			
20						Signals and Systems	VL 3		Renewables and Energy		Bachelor Thesis
21	Mechanics I (GES)		Electrical Engineering II	Computer Engineering		Signals and Systems	HÜ 1		Systems and Energy		
22		L 2	Electrical Engineering II VL 3	Computer Engineering VL 3	3			Reciprocating Machinery	Renewable Energy VL	2	
23	Mechanics I H	lÜ 3	Electrical Engineering II UE 2	Computer Engineering UE	1			(part 1)	Energy Systems and VL	2	
								Fundamentals of VL 1	Energy Industry		
								Reciprocating Engines	Power Industry VL	1	

					Part F Engin Funda Recip and T	amentals of orocating Engines Furbomachinery - Reciprocating	HÜ 1	Renewable Energy	UE 1
					Comr	putational Fluid			
						imics I			
							VL 2		
_	Programming in C	Mechanics II (GES)		Mechanical Engineering:		ımics I			
	Programming in C VL 1	Mechanics II	/L 2	Design (part 1)		putational Fluid mics I	HÜ 2		
	Programming in C PR 1	Mechanics II	⊣Ü 2	Embodiment Design and VL 2 3D-CAD	Dyna	imos i			
	Physics for Engineers (GES)			Mechanical Design TT 3					
	Physics for Engineers VL 2			Project I					
	Physics for Engineers UE 1			Fundamentals of Materials					
				Science (part 1)					
				Fundamentals of VL 2					
				Materials Science I					
				Physical and Chemical VL 2					
				Basics of Materials Science					

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.