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

Sample course plan A 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 Form	mHrs/	v&nester 2 FormHrs	/wSwemester 3 Formers	rs/v	Welemester 4 Fo	ormHrs/	Wakemester 5 Formalis	s/wSwemester6 FormHr	s/wSemester7 Formirs/v
1 2 3 4 5	Chemistry (GES) Chemistry I VL Chemistry II VL Chemistry I HÜ Chemistry II HÜ	2	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering Design	Technical Thermodynamics II Technical VL 2 Thermodynamics II Technical HÜ 1 Thermodynamics II Technical UE 1 Thermodynamics II		Methodology Mechanical Design T Project II Fundamentals of Material Science (part 2)	BL2 Г 3	Introduction to Control Systems Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship GES
7 8 9	Linear Algebra VL Linear Algebra HÜ Linear Algebra UE	2	Technical Thermodynamics I Technical VL 2 Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 1 Thermodynamics I	Mathematics III Analysis III VL 2 Analysis III UE 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 UE 1 Differential Equations 1 HÜ 1			Ü 2	Technology for Mechanical and Process Engineers Measurement HÜ 1 Technology for Mechanical and Process Engineers Practical Course: PR 2	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical VL 2 Engineering Design II Advanced Mechanical HÜ 2 Engineering Design II Reciprocating Machinery (part 2) Internal Combustion VL 2 Engines I Internal Combustion HÜ 1	
13 14 15 16 17 18 19	Electrical Engineering I Electrical Engineering I VL Electrical Engineering I UE		Mathematical Analysis Mathematical Analysis Mathematical Analysis HÜ 2 Mathematical Analysis UE 2	Mechanics III (GES) Mechanics III HÜ 1 Mechanics III UE 2 Mechanics III VL 3	1	Mechanics IV UI Mechanics IV HI Signals and Systems	Ü 1	Measurement and Control Systems Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design I HÜ 2 Heat Transfer HÜ 2	Electrical Machines Electrical Machines VL 3 Electrical Machines HÜ 2	Bachelor Thesis
20 21 22 23	Mechanics I (GES) Mechanics I VL Mechanics I HÜ		Electrical Engineering II VL 3 Electrical Engineering II UE 2	Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1		- ·	Ü 1	Reciprocating Machinery (part 1) Fundamentals of VL 1 Reciprocating Engines	Renewables and Energy Systems Renewable Energy VL 2 Energy Systems and VL 2 Energy Industry 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.