Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w17)

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

Legend:			
Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1 For	r itti rs/	Wikemester 2 Formir	s/&kmester 3	Formers	/\skmester 4	For M rs	/wskemester 5 Forhhr	/www.mester 6 Formin	s/wkmester 7 Forms/v
2	Chemistry (GES) Chemistry I VL		Technical Thermodynamics I	Technical Thermodynamics II		Mechanical Engineer Design (part 2)	ing:	Introduction to Control Systems	Foundations of Management	Advanced Internship AIW/ GES
3	Chemistry II VL		Technical VL 2 Thermodynamics I	Technical Thermodynamics II	VL 2	Team Project Design Methodology	PBL2	Introduction to VL 2 Control Systems	Introduction to VL 3 Management	
	Chemistry I HÜ Chemistry II HÜ		Technical HÜ 1 Thermodynamics I	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	PBL3	Introduction to UE 2 Control Systems	Management Tutorial HÜ 2	
4			Technical UE 1 Thermodynamics I	Technical Thermodynamics II	UE 1	Fundamentals of		·		
							vrt 2)			
6						Materials Science II Fluid Dynamics				
7	Linear Algebra		Mathematical Analysis	Mathematics III			VL 3	Measurement Technology	Advanced Mechanical	
9	Linear Algebra VL	4	Mathematical Analysis VL 4	Analysis III	VL 2		HÜ 2	for Mechanical and Process Engineers	Engineering Design (part 2)	
	Linear Algebra HÜ		Mathematical Analysis HÜ 2	Analysis III	UE 1			Measurement VL 2	Advanced Mechanical VL 2	
	Linear Algebra UE	2	Mathematical Analysis UE 2	Analysis III	HÜ 1			Technology for	Engineering Design II	
				Differential Equations 1	VL 2			Mechanical and Process Engineers	Advanced Mechanical HÜ 2 Engineering Design II	
10				Differential Equations	UE 1			Measurement HÜ 1		
11				Differential Equations	HÜ 1			Technology for Mechanical and	Reciprocating Machinery (part 2)	
12				1		Mechanics IV (Kinetic		Process Engineers	Internal Combustion VL 2	
						Oscillations, Analytic Mechanics, Multibody		Practical Course: PR 2 Measurement and	Engines I Internal Combustion HÜ 1	
12						Systems)		Control Systems	Engines I	
13 14							VL 3	Advanced Mechanical		
15	- 1		=1	M. J. J. W. (656)			UE 2 HÜ 1	Engineering Design (part 1)	Fundamentals of Production and Quality	
	Electrical Engineering I		Electrical Engineering II	Mechanics III (GES) Mechanics III	HÜ 1	. recirculation in		Advanced Mechanical VL 2	Management	
	Electrical Engineering VL		Electrical Engineering VL 3	Mechanics III	UE 2			Engineering Design I	Production Process VL 2	
	Electrical Engineering UE	2	Electrical Engineering UE 2	Mechanics III	VL 3			Advanced Mechanical HÜ 2	Organization	
1.0	I		II		• - 3			Engineering Design I	Quality Management VL 2	
16 17								Heat Transfer		
18								Heat Transfer VL 3		
19						Signals and Systems		Heat Transfer HÜ 2		
20						Signals and Systems			Renewables and Engage	Bachelor Thesis
21	Mechanics I (GES)		Mechanics II (GES)	Computer Engineeri	ng	Signals and Systems	UE 2		Renewables and Energy Systems	
22	Mechanics I VL	2	Mechanics II VL 2	Computer Engineering	VL 3			Reciprocating Machinery	Renewable Energy VL 2	

23 Mechanics I HÜ 3	Mechanics II HÜ 2	Computer Engineering UE 1	(part 1) Fundamentals of Reciprocating Engi and Turbomachine Part Reciprocating Engines Fundamentals of Reciprocating Engi	ery - J HÜ 1 gines	Energy Systems and Energy Industry Power Industry Renewable Energy	VL 2 VL 1 UE 1	
ramming in C amming in C VL 1 amming in C PR 1		Mechanical Engineering: Design (part 1) Embodiment Design VL 2 and 3D-CAD	and Turbomachine Part Reciprocating Engines Gas and Steam F Plants Gas and Steam Po Plants Gas and Steam Po Plants	Power Dower VL 3			
Physics for Engineers (GES) Physics for Engineers VL 2 Physics for Engineers UE 1	Mechanical Engineering Fundamentals of UE 2 Mechanical Engineering	Mechanical Design PBL3 Project I Fundamentals of Materials Science (part 1)					
Nortechnical Complementary	Courses for Bachelors (from cat	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.