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

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Mechanical Engineering, Focus Energy Systems

рестат	lisation Mechanical Engli	neering,	, rocus Energy System	5					Core qualification Elective Compulsory	Specia Compi	lisation Elective ulsory	Focus Elective Co	npulsory Interdisciplinary complement	у
.P	Semester 1	Formirs	/ଜିkmester 2	Former	/&kmester 3	Formirs	/wwkmester 4	For ith rs	/wikemester 5 Fo	or ith rs	∕wskmester 6	For it irs,	Wsemester 7	Former
	Chemistry II Chemistry I	VL 2 VL 2 HÜ 1 HÜ 1	Electrical Engineeri Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1 UE 1	Methodology Mechanical Design Project II Fundamentals of Materials Science (pa	PBL2 PBL3	Control Systems	L 2	Foundations of Management Introduction to Management Management Tut	VL 3	Advanced Internsi GES	hip AIW/
· •	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering VL 3	orks	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical	Mathematics III Analysis III Analysis III Analysis III	VL 2 UE 1 HÜ 1		VL 3 HÜ 2	Measurement Technol for Mechanical and Process Engineers Measurement V Technology for		Advanced Mecha Engineering De 2) Advanced Mecha Engineering Desi	esign (part			
) 1 2	I: Direct Current Networks and Electromagnetic Fields Electrical Engineering UE 2 I: Direct Current Networks and		Engineering Design	HÜ 2	Differential Equations VL 2 Differential Equations UE 1 Differential Equations HÜ 1 1	UE 1	Mechanics IV (Kineti	s II.	Mechanical and Process Engineers Measurement HÜ 1 Technology for Mechanical and Process Engineers	Ü 1	Advanced Mecha Engineering Desi Reciprocating I (part 2) Internal Combust	anical HÜ 2 ign II Machinery		
3	Electromagnetic Fields Mathematics I		Technical					y VL 3	Measurement and Control Systems Advanced Mechanical		Engines I Internal Combust Engines I	tion HÜ 1		
5	Linear Algebra I Linear Algebra I Analysis I	VL 2 UE 1 HÜ 1 VL 2 UE 1	Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I Technical	VL 2 HÜ 1 UE 1	Mechanics III (Hydrostatics, Kinematics, Kinetics Mechanics III	SI) VL 3 UE 2		UE 2 HÜ 1	Engineering Design (p 1) Advanced Mechanical V Engineering Design I Advanced Mechanical H Engineering Design I	L 2	Electrical Machin and Actuators Electrical Machin and Actuators Electrical Machin and Actuators	nes VL 3		
5 7 3	Analysis I	HÜ 1	Thermodynamics I Mechanics II: Mecha		Mechanics III Mechanics III	HÜ 1	Signals and Systems Signals and Systems	VL 3		L 3 Ü 2	and ristages		Bachelor Thesis	
0 1	Mechanics I (Statics)		of Materials Mechanics II	VL 2	Computer Engineering		Signals and Systems				Renewables an Systems	nd Energy		
2	Mechanics I	VI 2	Mechanics II	HF 2	Computer Engineering	VI 3			Reciprocating Machine	ar.	Renewable Energ	gy VL 2		

Core qualification

Compulsory

Specialisation Compulsory Focus Compulsory

Thesis Compulsory

23	Mechanics I UE 2 Mechanics I HÜ 1	Mechanics II HÜ 2	Computer Engineering UE 1	(part 1) Fundamentals of VL 1 Reciprocating Engines and Turbomachinery - Part Reciprocating Engines Fundamentals of HÜ 1 Reciprocating Engines and Turbomachinery - Part Reciprocating Engines Engines	Energy Industry Power Industry	VL 2 VL 1 UE 1				
24 25				Computational Fluid Dynamics I						
26		Mathematics II								
27		Linear Algebra II VL 2		Computational Fluid VL 2 Dynamics I						
28	Programming in C	Linear Algebra II UE 1	Mechanical Engineering: Design (part 1)	Computational Fluid HÜ 2						
	Programming in C VL 1	Linear Algebra II HÜ 1	Embodiment Design VL 2	Dynamics I						
	Programming in C PR 1	Analysis II VL 2	and 3D-CAD							
29	Physics for Engineers	Analysis II HÜ 1	Mechanical Design PBL3							
	(AIW)	Analysis II UE 1	Project I							
30	Physics for Engineers VL 2		- 1 - 1 - 1 - 1							
31	Physics for Engineers UE 1		Fundamentals of Materials Science (part 1)							
32			Fundamentals of VL 2							
33			Materials Science I							
			Physical and Chemical VL 2							
			Basics of Materials							
			Science							
	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.