Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w18) Legend: Core gualification

Sample course plan C Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specia	pecialisation Mechanical Engineering, Focus Energy Systems						Core qualification Elective Compulsory		lisation Elective Isory	Focus Elective Cor	npulsory Interdisciplinary complement			
LP	Semester 1	Formittirs,	Watemester 2 Fo	or in trs/	Watemester 3	Formin	/vskemester 4	Formithrs,	/wikemester 5 For	r h hrs/	Sekemester 6	Formhrs/	Semester 7	For h hrs/w
1 2	Chemistry Chemistry I	VL 2	Electrical Engineering I Alternating Current	11:	Technical Thermodynamics II		Mechanical Enginee Design (part 2)	ering:	Introduction to Control Systems		Foundations of Management	f	Advanced Internship GES	AIW/
3	Chemistry II	VL 2	Networks and Basic Devices		Technical Thermodynamics II	VL 2	Team Project Design Methodology	PBL2	Introduction to VL Control Systems		Introduction to Management	VL 3		
	Chemistry I Chemistry II	HÜ 1 HÜ 1	Electrical Engineering VL II: Alternating Current	L 3	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	PBL3	Introduction to UE Control Systems	2	Management Tu	torial UE 2		
4			Networks and Basic Devices		Technical Thermodynamics II	UE 1	Fundamentals of							
5			Electrical Engineering UE II: Alternating Current	E 2	·		Materials Science (
			Networks and Basic Devices				Fundamentals of Materials Science II	VL 2						
6 7							Fluid Dynamics							
, 8	Electrical Engineerin Direct Current Netw		Fundamentals of Mechanical Engineering	a	Mathematics III		Fluid Mechanics	VL 3	Measurement Technolo for Mechanical Enginee		Advanced Mec Engineering De			
9	and Electromagnetic		Design	y	Analysis III	VL 2 UE 1	Fluid Mechanics	HÜ 2	-		2)	esigii (part		
	Fields			L 2	Analysis III Analysis III	HÜ 1			Technology for		Advanced Mecha			
	Electrical Engineering I: Direct Current	VL 3	Mechanical Engineering Design		Differential Equations				Mechanical Engineering		Engineering Des Advanced Mecha			
	Networks and Electromagnetic Fields			Ü 2	1						Engineering Des			
10	Electrical Engineering		Mechanical Engineering Design		Differential Equations	UE 1			Technology for Mechanical		Reciprocating	Machinery		
11	I: Direct Current				Differential Equations	HÜ 1			Engineering		(part 2)			
12	Networks and Electromagnetic Fields				1		Mechanics IV (Kinet		Practical Course: PR Measurement and	2	Internal Combus Engines I	tion VL 2		
							Oscillations, Analyt Mechanics, Multibo		Control Systems		Internal Combus	tion HÜ 1		
13	Mathematics I		Technical				Systems)		Advanced Mechanical		Engines I			
14	Linear Algebra I	VL 2	Thermodynamics I				Mechanics IV	VL 3	Engineering Design (pa	nrt	Advanced Mat	erials		
15	Linear Algebra I	UE 1	Technical VL Thermodynamics I	L 2	Mechanics III		Mechanics IV Mechanics IV	UE 2 HÜ 1	1) Advanced Mechanical VL	2	Advanced Mater			
	Linear Algebra I	HÜ 1		Ü 1	(Hydrostatics, Kinematics, Kinetics	D D		110 1	Engineering Design I		Characterization			
	Analysis I	VL 2	Thermodynamics I		Mechanics III	VL 3			Advanced Mechanical HÜ		Advanced Mater Design	ials VL 2		
16	Analysis I Analysis I	UE 1 HÜ 1	Technical UE Thermodynamics I	E 1	Mechanics III	UE 2			Engineering Design I		Advanced Mater	ials HÜ 2		
16 17	Andrysis i	101	incrinouynumics i		Mechanics III	HÜ 1			Heat Transfer		Design			
18							Signals and System	_	Heat Transfer VL					
19			Mechanics II: Mechanic	s			Signals and System Signals and Systems		Heat Transfer HÜ	12			Bachelor Thesis	
20 21	Mechanics I (Statics)	of Materials Mechanics II VL	L 2	Computer Engineeri	na	Signals and Systems				Renewables ar Systems	nd Energy		
22	Mechanics I	, VL 2		E 2	Computer Engineering	-			Reciprocating Machine	ry	Renewable Ener	gy VL 2		
23	Mechanics I	UE 2	Mechanics II HÜ	Ü 2	Computer Engineering	UE 1			(part 1)		Energy Systems	and VL 2		

Specialisation Compulsory Focus Compulsory

Compulsory

Thesis Compulsory

	Mechanics I HÜ 1				Fundamentals of Reciprocating EnginesVL1Reciprocating EnginesIPart Reciprocating EnginesIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Energy Industry VL 1 Power Industry VL 1 Renewable Energy UE 1		
24 25 26		Mathematics II			Computational Fluid Dynamics I Computational Fluid VL 2			
27 28 29	Programming in CProgramming in CVLProgramming in CPR	Analysis II VL 2	Mechanical Engineering: Design (part 1) Embodiment Design VL 2 and 3D-CAD	2	Computational Fluid VL 2 Dynamics I Computational Fluid HÜ 2 Dynamics I			
29	Physics for Engineers (AIW)	Analysis II HÜ 1 Analysis II UE 1	Mechanical Design PBL3 Project I					
30 31	Physics for EngineersVL 2Physics for EngineersUE 1		Fundamentals of Materials Science (part 1)					
32 33			Fundamentals of VL 2 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.