Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w17) Legend: Core gualification

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

Specia	alisation Mechanical Engi	Focus Energy Systems				Core qualification Elective Compulsory Compulsory		Focus Elective Cor	npulsory	y Interdisciplinary complement				
LP	Semester 1	Formithrs,	Watemester 2 For	r itti rs/	Økmester 3	Formithrs,	/ଭିkemester 4	Formithrs	/wikemester 5 For	htrs/	Økemester 6	Formits/	wemester 7	For hi rs/w
1 2 3 4 5	Chemistry Chemistry I Chemistry II Chemistry I Chemistry II	VL 2 VL 2 HÜ 1 HÜ 1	Electrical Engineering II Alternating Current Networks and Basic Devices Electrical Engineering VL II: Alternating Current Networks and Basic Devices Electrical Engineering UE II: Alternating Current Networks and Basic Devices	. 3	Thermodynamics II Technical Thermodynamics II		Mechanical Enginee Design (part 2) Team Project Design Methodology Mechanical Design Project II Fundamentals of Materials Science (p Fundamentals of Materials Science II	PBL2 PBL3	Control Systems	2	Foundations of Management Introduction to Management Management Tu	VL 3	Advanced In GES	ternship AIW/
7 8 9 10 11 12	Electrical Engineerin Direct Current Netwo and Electromagnetic Fields Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3 UE 2	Fundamentals of Mechanical Engineering Design Fundamentals of VL Mechanical Engineering Design Fundamentals of HÜ Mechanical Engineering Design) 2	Analysis III	UE 1 HÜ 1 VL 2 UE 1	Fluid Dynamics Fluid Mechanics Fluid Mechanics Mechanics IV (Kinet Oscillations, Analyti Mechanics, Multiboo Systems)	cal	Measurement Technology for Mechanical and Process EngineersVLMeasurementVLTechnology for Mechanical and Process EngineersHÜMeasurementHÜTechnology for Mechanical and Process EngineersHÜProcess EngineersPractical Course: Measurement and Control SystemsPR	2	Advanced Mec Engineering D 2) Advanced Mech Engineering Des Advanced Mech Engineering Des Reciprocating (part 2) Internal Combus Engines I Internal Combus Engines I	esign (part anical VL 2 sign II anical HÜ 2 sign II Machinery stion VL 2		
13 14 15 16 17 18	Mathematics I Linear Algebra I Linear Algebra I Linear Algebra I Analysis I Analysis I Analysis I	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Thermodynamics I)1 1	Mechanics III	5 I) VL 3 UE 2 HÜ 1	Mechanics IV Mechanics IV Mechanics IV	VL 3 UE 2 HÜ 1	Advanced Mechanical Engineering DesignVLAdvanced Mechanical Engineering Design IVLAdvanced Mechanical Engineering Design IHÜHat TransferVLHeat TransferHÜHeat TransferHÜ	rt 2 2 3	Advanced Mate Advanced Mate Characterization Advanced Mate Design Advanced Mate Design	rials VL 2 n rials VL 2		
19 20 21	Mechanics I (Statics))	Mechanics II: Mechanics of Materials Mechanics II VL	-	Computer Engineerii	ng	Signals and Systems Signals and Systems	VL 3			Renewables a Systems	nd Energy	Bachelor Th	esis
22	Mechanics I	VL 2	Mechanics II UE	2	Computer Engineering	VL 3			Reciprocating Machiner	у	Renewable Ener	rgy VL 2		

Specialisation Compulsory Focus Compulsory

Compulsory

Thesis Compulsory

23	Mechanics I UE Mechanics I HÜ		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	Energy Systems and Energy Industry Power Industry Renewable Energy	VL 2 VL 1 UE 1		
24 25							Computational Fluid				
26			Mathematics II				Dynamics I				
27	Dreamming in C			VL 2	Machanical Engineering		Computational Fluid VL 2 Dynamics I				
28	Programming in C		J L L	UE 1	Mechanical Engineering: Design (part 1)		Computational Fluid HÜ 2				
	Programming in C VL			HÜ 1	Embodiment Design VL 2		Dynamics I				
	Programming in C PR			VL 2	and 3D-CAD						
29	Physics for Engineers			HÜ 1	Mechanical Design PBL3						
	(AIW)		Analysis II	UE 1	Project I						
30	Physics for Engineers VL	_ 2			Fundamentals of						
31	Physics for Engineers UE	= 1			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.