Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20) Legend: Core gualification

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

										alisation Elective Focus Elective Co	Interdisciplinary complement
Seme	ester 1	For h hrs/	କ୍ଷkmester 2	For h hrs/	մemester 3	Formithrs/	wemester 4	Formithrs,	Wakemester 5 Forming	s/wsieemester 6 Formins	/wskemester 7 Forhin
	nistry I+II	VL 4 HÜ 2	Electrical Engineering 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	Signals and System Signals and Systems Signals and Systems	VL 3	Introduction to ControlVL2Introduction toVL2Control Systems2Introduction toUE2Control Systems2	Foundations of ManagementVLIntroduction to ManagementVLManagementUEManagement TutorialUE	Advanced Internship AIW/ GES
Direct and E Fields Electri I: Dire Netwo Electri I: Dire Netwo	trical Engineering Electromagnetic s rical Engineering ect Current orks and romagnetic Fields rical Engineering ect Current orks and romagnetic Fields	rks VL 3	Mechanical Engineering Design	ng VL 2 HÜ 2	Mathematics III Analysis III Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	UE 1 HÜ 1 VL 2 UE 1	Fluid Dynamics Fluid Mechanics Fluid Mechanics	VL 3 HÜ 2	Measurement Technology for Mechanical Engineers Measurement VL 2 Technology for Mechanical - Engineering - - Measurement HÜ 1 Technology for Mechanical - - Brachical - - Practical Course: PR 2 Measurement and Control Systems - -	Advanced MaterialsVL2Advanced MaterialsVL2CharacterizationVL2Advanced MaterialsVL2DesignHÜ2DesignDesignIII	
Linear Linear	r Algebra I r Algebra I vsis I vsis I	VL 2 UE 1 HÜ 1 VL 2 UE 1	Thermodynamics I Technical Thermodynamics I	VL 2 HÜ 1 UE 1	Mechanics III (Dynai Mechanics III Mechanics III Mechanics III	VL 3 UE 2	Mechanics IV (Oscillations, Analyti Mechanics, Multibod Systems, Numerical Mechanics) Mechanics IV Mechanics IV Mechanics IV	ły	Numerical Mathematics I Numerical VL 2 Mathematics I Numerical UE 2 Mathematics I	Enhanced FundamentalsEnhancedVL2Fundamentals: MetalsVL2EnhancedVL2Fundamentals:Ceramics andPolymersEnhancedHÜ1Fundamentals:Ceramics andPolymersEnhancedHÜ1Fundamentals:Ceramics andPolymersHÜ1	
			Mechanics II: Mechanics of Materials				Engineering Design (part		Computer Engineering Computer Engineering VL 3	Structural Materials (part 2)	Bachelor Thesis
Mech	nanics I (Statics)		Mechanics II	VL 2	Advanced Mechanic	al	2)		Computer Engineering UE 1	Fundamentals of VL 2	

Specialisation Compulsory Focus Compulsory

Compulsory

Thesis Compulsory

1	Mechanics I	UE 2	Mechanics II	HÜ 2	1)	Engineering Design II			of Materials
	Mechanics I	HÜ 1			Advanced Mechanical VL 2 Engineering Design I	Advanced Mechanical HÜ 2 Engineering Design II			
22 23					Advanced Mechanical HÜ 2 Engineering Design I	Mechanical Engineering: Design (part 2)			
24					Mechanical Engineering: Design (part 1)	Team Project Design PBL2 Methodology			
					Embodiment Design VL 2 and 3D-CAD	Mechanical Design PBL3 Project II			
25 26	-		Mathematics II Linear Algebra II	VL 2	Mechanical Design PBL3 Project I	Fundamentals of Materials Science (part 2)		ructural Materials (part	
			Linear Algebra II Linear Algebra II	VE 1 HÜ 1				lding Technology VL 3	
27 28	Programming in C		Analysis II	VL 2	Fundamentals of				
20	5 5	VL 1 PR 1	Analysis II Analysis II	HÜ 1 UE 1	Materials Science (part 1)Fundamentals ofVL 2			terial Science boratory	
29 30	Physics for Engineers	5			Materials Science I Physical and Chemical VL 2 Basics of Materials		for	mpanion Lecture VL 2 Materials Science poratory	
	(AIW) Physics for Engineers	VL 2			Science		Mat	terial Science PR 4	
31 32	Physics for Engineers	UE 1					Lab	poratory	
33									
	Non-technical Courses for	or Bach	nelors (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.