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

Sample course plan C Bachelor General Engineering Science (English program, 7 semester) (GESBS(7)) Specialisation Mechanical Engineering, Focus Materials in Engineering Sciences

			, Focus Materials in Enginee		(alisation Elective Focus Elective Coulory	ompulsory Interdisciplinary complement
LP	Semester 1	Formit	/wikemester 2 For	nnrs/wskemester 3	Formit	/wkemester 4	Formin	/wsikemester 5 Formitre	/wskemester 6 Former	s/wsikemester 7 Formirs/w
1 2 3 4 5	Chemistry (GES) Chemistry I Chemistry II Chemistry I Chemistry II	VL 2 VL 2 HÜ 1 HÜ 1	Thermodynamics I Technical HÜ Thermodynamics I	Technical Thermodynamics II2Technical Thermodynamics II1Technical Thermodynamics II1Technical Thermodynamics II1Technical Thermodynamics II	VL 2	Methodology Mechanical Design Project II Fundamentals of Materials Science (pa	PBL2 PBL3	Computer Engineering VL 3 Computer Engineering UE 1	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship AIW/ GES
9 10 12	Linear Algebra Linear Algebra Linear Algebra Linear Algebra	VL 4 HÜ 2 UE 2	Mathematical Analysis VL Mathematical Analysis HÜ Mathematical Analysis UE	2 Analysis III	UE 1		part VL 2	Introduction to Control SystemsVL2Introduction to Control SystemsUE2Introduction to Control SystemsUE2	Enhanced Fundamentalsof Materials ScienceEnhancedVL 2Fundamentals: MetalsEnhancedVL 2Fundamentals:Ceramics andPolymersEnhancedHÜ 1Fundamentals:Ceramics andPolymersEnhancedBundamentals:Ceramics andPolymers	
13 14 15 16 17 18 19 20	Electrical Engineerin Electrical Engineering I Electrical Engineering I	VL 3	Electrical Engineering II Electrical Engineering VL II Electrical Engineering UE II	Mechanics III	HÜ 1 UE 2 VL 3	Mechanics IV	al	Technology for Mechanical and Process Engineers	Structural Materials (part 2)Fundamentals of Mechanical Properties of MaterialsVL 2Advanced MaterialsVL 2CharacterizationVL 2Advanced MaterialsVL 2DesignVL 2Advanced MaterialsVL 2DesignHÜ 2DesignHÜ 2	Bachelor Thesis
21	Mechanics I (GES)		Mechanics II (GES)	Mechanical Enginee	ering:	Signals and Systems		Mathematics I		

Specialisation Compulsory Focus Compulsory

Compulsory

Thesis Compulsory

22	Mechanics I	VL 2	Mechanics II	VL 2	Design (part 1)		Signals and Systems	VL 3	Numerical UE	2
23	Mechanics I	HÜ 3	Mechanics II	HÜ 2	Embodiment Design and 3D-CAD	VL 2	Signals and Systems	UE 2	Mathematics I	
					Mechanical Design Project I	PBL3				
24					Fundamentals of					
25					Materials Science (p	art 1)			Structural Materials (p	art
26					Fundamentals of	VL 2			1)	are
27	Programming in C		Fundamentals of		Materials Science I				Welding Technology VL	. 3
	Programming in C	VL 1	Mechanical Engine	ering	Physical and Chemical	VL 2				
	Programming in C	PR 1	(GES) Fundamentals of	VL 2	Basics of Materials Science					
28			Mechanical	VL 2						
29	Physics for Engineers (GES)		Engineering Fundamentals of Mechanical	UE 2	Advanced Mechanical Engineering Design (part 1)				Material Science Laboratory	
30									-	2
	Physics for Engineers	VL 2	Engineering		Advanced Mechanical	VL 2			for Materials Science	
	Physics for Engineers	UE 1			Engineering Design I				Laboratory	
					Advanced Mechanical Engineering Design I	HU 2			Material Science PR Laboratory	R 4
31					5 5 .		I			
32										
33					1					
	Nontechnical Complem	nentary (Courses for Bachelors (from cata	alogue) - 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.