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

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

Legend:								
Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory					
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement					

LP	Semester 1	Formers	/v&kemester 2 For⊪t	rs/v&lemester 3	Forters	/wSemester 4	Formers	/wSwemester5 Formire	s/wSwemester 6 Formings	/wSwemester 7 Formidrs/w
1 2 3 4 5	Chemistry (GES) Chemistry I Chemistry II Chemistry I Chemistry I	VL 2 VL 2 HÜ 1 HÜ 1	Technical Thermodynamics Technical VL Thermodynamics I Technical HÜ Thermodynamics I Technical UE Thermodynamics I	Technical Thermodynamics II Technical	VL 2 HÜ 1 UE 1	Mechanical Engineeri Design (part 2) Team Project Design Methodology Mechanical Design Project II  Fundamentals of Mate Science (part 2) Fundamentals of Materials Science II	PBL2 PBL3 Prials VL 2	Computer Engineering VL 3 Computer Engineering UE 1	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship GES
7 8 9 10 11 12	Linear Algebra Linear Algebra Linear Algebra Linear Algebra	VL 4 HÜ 2 UE 2	Mathematical Analysis  Mathematical Analysis  VL  Mathematical Analysis  HÜ  Mathematical Analysis  UE	Analysis III	UE 1	Advanced Mechanical Engineering Design ( Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II Fluid Dynamics Fluid Mechanics Fluid Mechanics		Introduction to Control Systems Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems	Fundamentals: Metals	
14 15 16 17 18	Electrical Engineering Electrical Engineering I Electrical Engineering I	VL 3	Electrical Engineering II Electrical Engineering II VL Electrical Engineering II UE	Mechanics III Mechanics III	HÜ 1 UE 2 VL 3	Mechanics IV (Kinetic Oscillations, Analytic Mechanics, Multibody Systems) Mechanics IV Mechanics IV Mechanics IV	al	Measurement Technology for Mechanical and Process Engineers  Measurement VL 2 Technology for Mechanical and Process Engineers  Measurement HÜ 1 Technology for Mechanical and Process Engineers  Measurement HÜ 1 Technology for Mechanical and Process Engineers  Practical Course: PR 2 Measurement and Control Systems  Numerical Mathematics I  Numerical Mathematics VL 2	Structural Materials (part 2) Fundamentals of VL 2 Mechanical Properties of Materials  Electrical Machines and Actuators  Electrical Machines and VL 3 Actuators  Electrical Machines and HÜ 2 Actuators	Bachelor Thesis
22	Mechanics I (GES)  Mechanics I	VL 2	Mechanics II (GES)  Mechanics II VL	Mechanical Engineer  Design (part 1)	ing:	Signals and Systems Signals and Systems	VL 3	Numerical Mathematics UE 2		

23	Mechanics I HÜ 3	Mechanics II HÜ 2	Embodiment Design and VL 2 3D-CAD Mechanical Design PBL3 Project I	Signals and Systems UE 2	1	
24 25			Fundamentals of Materials			
26			Science (part 1)		Structural Materials (part 1)	
27	Programming in C	Fundamentals of Mechanical	Fundamentals of VL 2 Materials Science I		Welding Technology VL 3	
	Programming in C VL 1	Engineering (GES)	Physical and Chemical VL 2			
	Programming in C PR 1	Fundamentals of VL 2 Mechanical Engineering	Basics of Materials Science			
28 29		Fundamentals of UE 2	Advanced Mechanical		Material Science Laboratory	
30	Physics for Engineers (GES)	Mechanical Engineering	Engineering Design (part 1)		Companion Lecture for VL 2	
30	Physics for Engineers VL 2		Advanced Mechanical VL 2 Engineering Design I		Materials Science Laboratory	
	Physics for Engineers UE 1		Advanced Mechanical HÜ 2		Material Science PR 4	
			Engineering Design I		Laboratory	
31				•		
32						
33						
	Nontechnical Complementary Co	urses for Bachelors (from catalogu	e) - 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.