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

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

Specia	cialisation Mechanical Engineering, Focus Theoretical Mechanical Engineering							Core qualification Elective Compulsory   Specialisation Elective Compulsory   Focus Elective Compulsor			mpulsory Interdisciplinary complement	ory Interdisciplinary complement	
LP	Semester 1	Formitters,	/wskemester 2 F	or <b>h</b> hrs/	ଏହିkemester 3	For <b>i</b> <del>hi</del> rs,	/ <b>ଜିk</b> mester 4	Formittirs	Wakemester 5 Formin	s/ <b>&amp;k</b> mester 6	Formit	/wkmester 7	Formhhrs/
1 2 3 4 5	<b>Chemistry (GES)</b> Chemistry I Chemistry II Chemistry I Chemistry II	VL 2 VL 2 HÜ 1 HÜ 1	Thermodynamics I Technical H Thermodynamics I	łÜ 1	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II		Mechanical Engineer Design (part 2) Team Project Design Methodology Mechanical Design Project II Fundamentals of Materials Science (p Fundamentals of Materials Science II	PBL2 PBL3	Computer Engineering VL 3 Computer Engineering UE 1	Foundations of Management Introduction to Management Management Tut	VL 3	Advanced Internsl GES	hip AIW/
6 7 8 9 10 11 12	<b>Linear Algebra</b> Linear Algebra Linear Algebra Linear Algebra	VL 4 HÜ 2 UE 2	Mathematical Analysis Mathematical Analysis M Mathematical Analysis H Mathematical Analysis U	/L 4 HÜ 2	Mathematics III Analysis III Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	UE 1	Advanced Mechanica Engineering Design Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II Fluid Dynamics Fluid Mechanics Fluid Mechanics	( <b>part</b> VL 2	Introduction to Control Systems Introduction to VL 2 Control Systems Introduction to UE 2 Control Systems	Mathematics IV Complex Functio Complex Functio Differential Equa 2 Differential Equa 2 Differential Equa 2	nns VL 2 nns UE 1 nns HÜ 1 tions VL 2 tions UE 1		
13 14 15 16 17 18	Electrical Engineering Electrical Engineering I Electrical Engineering I	VL 3	Electrical Engineering Electrical Engineering V II Electrical Engineering U II	/L 3	Mechanics III (GES) Mechanics III Mechanics III Mechanics III	HÜ 1 UE 2 VL 3	Mechanics IV (Kineti Oscillations, Analytic Mechanics, Multibod Systems) Mechanics IV Mechanics IV Mechanics IV	cal ly	Measurement Technology   for Mechanical Engineers   Measurement VL 2   Technology for   Mechanical Engineering   Measurement HÜ 1   Technology for   Measurement HÜ 1   Technology for   Mechanical Engineering   Practical Course: PR 2   Measurement and Control Systems	Modeling, Simu Optimization (C Modeling, Simula and Optimization	GES) ation IV 4		
19 20 21 22 23	Mechanics I (GES)	VL 2	Mechanics II (GES) Mechanics II V	/L 2	Mechanical Enginee Design (part 1) Embodiment Design	-	Signals and Systems		Advanced Mechanical Design Project Advanced Mechanical PBL4 Design Project			Bachelor Thesis	

Specialisation Compulsory Focus Compulsory

Compulsory

Constructification Election Constitution Election

Thesis Compulsory

Imming in C VL 1 Mechanical Engineering (GES) Physical and Chemical VL 2   Imming in C PR 1 Mechanical Engineering (GES) Physical and Chemical VL 2   Fundamentals of Mechanical VL 2 Advanced Mechanical Engineering Design (part 1)   s for Engineers VL 2 Fundamentals of Engineering VE 2   Fundamentals of Mechanical VE 2 Advanced Mechanical Engineering Design (part 1)		Mechanics I HÜ	3	Mechanics II HÜ 2	and 3D-CAD Mechanical Design PBL3 Project I	Signals and Systems UE 2	
amming in C mming	24 25 26				Materials Science (part 1)		
cs for Engineers Engineering Fundamentals of UE 2 Advanced Mechanical   s for Engineers VL 2 Engineering Advanced Mechanical VL 2   s for Engineers VL 2 Advanced Mechanical VL 2 Advanced Mechanical VL 2   s for Engineers VL 2 Advanced Mechanical VL 2 Advanced Mechanical VL 2   Advanced Mechanical VL 2 Advanced Mechanical VL 2 Advanced Mechanical VL 2   Advanced Mechanical HÜ 2 Advanced Mechanical HÜ 2	27	5 5	1	Mechanical Engineering (GES)	Materials Science I Physical and Chemical VL 2 Basics of Materials		-
	28 29 30	Physics for Engineers (GES)VLPhysics for EngineersVLPhysics for EngineersUE	2	Engineering Fundamentals of UE 2 Mechanical	Engineering Design (part 1) Advanced Mechanical VL 2 Engineering Design I Advanced Mechanical HÜ 2		
hnical Complementary Courses for Bachelors (from catalogue) - 6LP	31 32						

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.