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

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

Specia	alisation Mechanical Engi	ineering	, Focus Biomechanics							Specia Compu	alisation Elective ulsory	Focus Elective Co	mpulsory Interdisciplinary complement	
LP	Semester 1	Formithrs,	/ଡkmester 2	Formithrs/	wikemester 3	For <b>h</b> hrs,	/wskemester 4 Form	ntrs/vSr	kemester 5 Fo	or <b>in</b> trs,	/&kmester 6	Formit	/vskemester 7	For <b>h</b> hrs/v
1 2 3 4	Chemistry (GES) Chemistry I Chemistry II Chemistry I Chemistry II	VL 2 VL 2 HÜ 1 HÜ 1	Thermodynamics I Technical Thermodynamics I Technical	HÜ 1	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Technical		Mechanical Engineering: Design (part 2) Team Project Design PBL: Methodology Mechanical Design PBL: Project II	2 C	Computer Engineering Computer Engineering VI Computer Engineering VI	L 3	Foundations of Management Introduction to Management Management To	VL 3	Advanced Internship GES	AIW/
5	-		Thermodynamics I		Thermodynamics II		Fundamentals of Materials Science (part 2 Fundamentals of VL 2 Materials Science II Advanced Mechanical							
7 8 9	Linear AlgebraVL4Linear AlgebraHÜ2Linear AlgebraUE2Linear AlgebraUE2Electrical EngineeringVL3Electrical EngineeringUE2112	HÜ 2	Mathematical Analysis VL 4 Mathematical Analysis HÜ 2 Mathematical Analysis UE 2	Analysis III Analysis III Differential Equations 1		Advanced Mechanical VL : Advanced Mechanical VL : Engineering Design II Advanced Mechanical HÜ : Engineering Design II Fluid Dynamics	2 Ir 2 Ir 2 Ir	Introduction to Control Systems Introduction to VL 2 Control Systems Introduction to UE 2 Control Systems	L 2	MED II: Introd Physiology Introduction to Physiology				
10 11 12					Differential Equations 1 Differential Equations 1		Fluid MechanicsVL3Fluid MechanicsHÜ2Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)3Mechanics IVVL3Mechanics IVUE2Mechanics IVHÜ1				BIO I: Experimental Methods in Biomechanics Experimental Methods VL 2 in Biomechanics			
13 14 15 16 17 18		VL 3	Electrical Engineering Electrical Engineering II Electrical Engineering II	ng VL 3	<b>Mechanics III (GES)</b> Mechanics III Mechanics III Mechanics III			, M 7 3 2 1 1 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Technology for Mechanical and Process Engineers Measurement Hi Technology for Mechanical and Process Engineers	Ü 1 R 2	Fundamentals of Production and Quality ManagementVL 2 2 2 OrganizationVL 2 3Quality ManagementVL 2		Bachelor Thesis	
20 21	Mechanics I (GES)		Mechanics II (GES)		Mechanical Enginee	ring:	Signals and Systems		Iumerical VI Iathematics I	L 2				

Specialisation Compulsory Focus Compulsory

Compulsory

Thesis Compulsory

22 23	Mechanics I VL 2 Mechanics I HÜ 3			Signals and Systems VL 3 Signals and Systems UE 2	Numerical UE 2 Mathematics I
24 25 26			Fundamentals of         Materials Science (part 1)         Fundamentals of       VL 2		MED II: Introduction to Biochemistry and
27 28	Programming in C Programming in C VL 1 Programming in C PR 1	(GES)		MED I: Introduction to Anatomy Introduction to VL 2 Anatomy	Molecular Biology Introduction to VL 2 Biochemistry and Molecular Biology
29 30	Physics for Engineers (GES) Physics for Engineers VL 2 Physics for Engineers UE 1	Engineering Fundamentals of UE 2 Mechanical Engineering	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical VL 2 Engineering Design I Advanced Mechanical HÜ 2 Engineering Design I	MED I: Introduction to Radiology and Radiation Therapy Introduction to VL 2 Radiology and Dediction Therapy	BIO I: Implants and Fracture Healing Implants and Fracture VL 2 Healing
31 32		Courses for Bachelors (from ca		Radiation Therapy	

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