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

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

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 Former	s/wskemester 2 Formire	/www.mester 3 Forthers	s/w/kmester 4 Formirs	/www.ster 5 Forms	/wsiemester 6 Formirs	/wikemester 7 Forms/w
1 2 3 4 5	Chemistry (GES) Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1	Technical Thermodynamics I  Technical Technical Technical Technical Thermodynamics I  Technical Thermodynamics I  Technical UE 1  Thermodynamics I	Technical Thermodynamics II  Technical Technical Technical Technical Thermodynamics II  Technical Thermodynamics II  Technical UE 1 Thermodynamics II	Mechanical Engineering: Design (part 2)  Team Project Design PBL2 Methodology Mechanical Design PBL3 Project II  Fundamentals of Materials Science (part 2) Fundamentals of VL 2 Materials Science II	Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1	Foundations of Management Introduction to VL 3 Management Management Tutorial UE 2	Advanced Internship AIW/ GES
9 10 11 12	Linear Algebra Linear Algebra Linear Algebra HÜ 2 Linear Algebra UE 2	Mathematical Analysis  Mathematical Analysis VL 4  Mathematical Analysis HÜ 2  Mathematical Analysis UE 2	Mathematics III  Analysis III VL 2  Analysis III UE 1  Analysis III HÜ 1  Differential Equations VL 2  Differential Equations UE 1  Differential Equations HÜ 1  1	Advanced Mechanical Engineering Design (part 2)  Advanced Mechanical VL 2 Engineering Design II  Advanced Mechanical HÜ 2 Engineering Design II  Fluid Dynamics Fluid Mechanics VL 3  Fluid Mechanics HÜ 2	Introduction to Control Systems Introduction to VL 2 Control Systems Introduction to UE 2 Control Systems	MED II: Introduction to Physiology Introduction to VL 2 Physiology  BIO I: Experimental Methods in Biomechanics Experimental Methods VL 2 in Biomechanics	
13 14 15 16 17 18	Electrical Engineering I Electrical Engineering VL 3 I Electrical Engineering UE 2 I	Electrical Engineering II  Electrical Engineering VL 3 II  Electrical Engineering UE 2 II	Mechanics III (GES)  Mechanics III HÜ 1  Mechanics III UE 2  Mechanics III VL 3	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)  Mechanics IV VL 3  Mechanics IV UE 2  Mechanics IV HÜ 1	Measurement Technology for Mechanical Engineers  Measurement VL 2 Technology for Mechanical Engineering  Measurement HÜ 1 Technology for Mechanical Engineering  Practical Course: PR 2 Measurement and Control Systems	Advanced Materials Advanced Materials Characterization Advanced Materials Design Advanced Materials Advanced Materials Design HÜ 2	
19 20 21 22	Mechanics I (GES)	Mechanics II (GES)	Mechanical Engineering:	Signals and Systems	Numerical Mathematics I Numerical VL 2 Mathematics I Numerical UE 2		Bachelor Thesis

23	Mechanics I	VL 2	Mechanics II	VL 2	Design (part 1)	Signals and Systems V	/L 3	Mathematics I
	Mechanics I	HÜ 3	Mechanics II	HÜ 2	Embodiment Design VL 2 and 3D-CAD	Signals and Systems U	JE 2	
					Mechanical Design PBL3 Project I			
24					Fundamentals of			
25					Materials Science (part 1)			MED II: Introduction to
26					Fundamentals of VL 2			Biochemistry and
27	Programming in C		Fundamentals of		Materials Science I	MED I: Introduction to		Molecular Biology
	Programming in C	VL 1	Mechanical Enginee	ering	Physical and Chemical VL 2	Anatomy		Introduction to VL 2
	Programming in C	PR 1	(GES)	_	Basics of Materials	Introduction to V	/L 2	Biochemistry and
	Frogramming in C	rk 1	Fundamentals of	VL 2	Science	Anatomy		Molecular Biology
28			Mechanical		Advanced Mechanical			BIO I: Implants and
29	Physics for Engineer	rs	Engineering		Engineering Design (part			Fracture Healing
30	(GES)		Fundamentals of Mechanical	UE 2	1)	MED I: Introduction to	,	Implants and Fracture VL 2
	Physics for Engineers	VL 2	Engineering		Advanced Mechanical VL 2	Radiology and Radiati	on	Healing
	Physics for Engineers	UE 1			Engineering Design I	Therapy		
					Advanced Mechanical HÜ 2 Engineering Design I	Introduction to V Radiology and	/L 2	
31						Radiation Therapy		
32								

Nontechnical Complementary Courses for Bachelors (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.