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

Sample course plan A 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 Forth	rs/wSwemester 2 F	ormHrs/	wellemester 3	Formirs	∕w‰emester 4	Formers	/v⊠kemester5 Formir	s/wSkemester 6 FormHrs	/w&kemester7 FormHrs/
1 2 3 4 5	Chemistry (GES) Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 5 Chemistry II HÜ 6	Thermodynamics I Technical H Thermodynamics I	/L 2 HÜ 1 JE 1	Thermodynamics II Technical Thermodynamics II	mics VL 2 HÜ 1 UE 1	Mechanical Engineering Design (part 2) Team Project Design Methodology Mechanical Design Project II Fundamentals of Materials of Materials Science II	PBL2	Computer Engineering VL 3 Computer Engineering UE 1	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship GES
9 10 11 12	Linear Algebra Linear Algebra Linear Algebra Linear Algebra UE 2	2 Mathematical Analysis H	/L 4 IÜ 2 JE 2	Analysis III Analysis III Differential Equations 1	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Advanced Mechanical Engineering Design (I) 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	BIO I: Experimental Methods in Biomechanics Experimental Methods VL 2 in Biomechanics	
14 15 16 17 18	Electrical Engineering I Electrical Engineering I VL 3 Electrical Engineering I UE 3		/L 3	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 Practical Course: PR 2 Measurement and Control Systems	Electrical Machines and Actuators Electrical Machines and VL 3 Actuators Electrical Machines and HÜ 2 Actuators	
19 20 21 22	Mechanics I (GES)	Mechanics II (GES)		Mechanical Engineerin	g:	Signals and Systems		Numerical Mathematics I Numerical Mathematics VL 2 I		Bachelor Thesis

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

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.