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

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

Specia	alisation Mechanical Engineering	g, Focus Biomechanics				Core qualification Elective Compulsory		alisation Elective oulsory	Focus Elective Co		Interdisciplinary complement	
LP	Semester 1 Forthers	s/wskemester 2 Forth	rs/wikemester 3 Form	hrs/\skmester 4	Formirs/	√Skemester 5 F	or ith rs	s/wskmester 6	For ith rs,	/ &k mest∈	er 7 For i	nhrs/v
1 2 3 4 5	Chemistry Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering VL 3 II: Alternating Current Networks and Basic Devices Electrical Engineering UE 2 II: Alternating Current Networks and Basic Devices	Thermodynamics II Technical UE Thermodynamics II	Methodology Mechanical Design Project II Fundamentals of Materials Science (p Fundamentals of Materials Science II	PBL2 PBL3 art 2) VL 2	Control Systems		Foundations of Management Introduction to Management Management Tu	VL 3	Advanc GES	ed Internship AIV	"
7 8 9 10 11	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering VL 3 I: Direct Current Networks and Electromagnetic Fields Electrical Engineering UE 2 I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering Design	Analysis III HÜ Differential Equations VL	Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II Fluid Dynamics Fluid Mechanics	(part VL 2	Computer Engineering V Computer Engineering V Computer Engineering U	/L 3	MED II: Introd Physiology Introduction to Physiology BIO I: Experim Methods in Bio Experimental M in Biomechanics	VL 2 mental mechanics ethods VL 2			
13 14 15 16 17 18	Mathematics I Linear Algebra I VL 2 Linear Algebra I UE 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I UE 1 Analysis I HÜ 1	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I Technical UE 1 Thermodynamics I	(Hydrostatics, Kinematics, Kinetics I) Mechanics III VL	Mechanics IV	vL 3 UE 2 HÜ 1	Technology for Mechanical Engineering Measurement Technology for Mechanical Engineering		Advanced Mate Advanced Mate Characterization Advanced Mate Design Advanced Mate Design	rials VL 2 n rials VL 2			
19 20 21 22	Mechanics I (Statics)	Mechanics II: Mechanics of Materials Mechanics II VL 2	Mechanical Engineering:	Signals and Systems		Mathematics I	/L 2			Bachele	or Thesis	
		Mechanics II UE 2				Numerical L	JE 2					

Core qualification

Compulsory

Specialisation Compulsory Focus Compulsory

Thesis Compulsory

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

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.