Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w16)

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

Core qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory

Core qualification Elective

Core qualification Elective

Specialisation Elective

Compulsory Focus Elective Compulsory

Interdisciplinary complement

Semester 1 Forth	s/wSkemester 2 Formiti	√wSkemester3 Forkhirs	/w‰lemester4 FormH	rs/w64emester5 Formin	s/wSkemester6 FormHrs	/w‰kemester7 FormHrs/
Chemistry Chemistry I VL 2 Chemistry II VL 2 Chemistry II HÜ 1 Chemistry II HÜ 1	Networks and Basic Devices Electrical Engineering II: VL 3 Alternating Current	Technical Thermodynamics II Technical VL 2 Thermodynamics II Technical HÜ 1 Thermodynamics II Technical UE 1 Thermodynamics II	Mechanical Engineering: Design (part 2) Team Project Design PBL2 Methodology Mechanical Design TT 3 Project II Fundamentals of Materials Science (part 2) Fundamentals of VL 2 Materials Science II	Computer Engineering OL 1	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship GES
Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: VL 3 Direct Current Networks and Electromagnetic Fields Electrical Engineering I: UE 3 Direct Current Networks and Electromagnetic Fields	Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering	Mathematics III Analysis III VL 2 Analysis III UE 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 UE 1 Differential Equations 1 HÜ 1	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2	Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems	MED II: Introduction to Physiology Introduction to VL 2 Physiology BIO I: Experimental Methods in Biomechanics Experimental Methods VL 2 in Biomechanics	
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	Thermodynamics I Technical HÜ 1 Thermodynamics I	Mechanics III (Hydrostatics, Kinematics, Kinetics I) Mechanics III VL 3 Mechanics III UE 2 Mechanics III HÜ 1	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV VL 3 Mechanics IV UE 2 Mechanics IV HÜ 1	Measurement HÜ 1 Technology for	Advanced Materials Advanced Materials Characterization Advanced Materials VL 2 Design Advanced Materials HÜ 2 Design	
Mechanics I (Statics)	Mechanics II: Mechanics of Materials Mechanics II VL 2	Mechanical Engineering:	Signals and Systems	Numerical Mathematics I Numerical Mathematics VL 2 I		Bachelor Thesis
Mechanics I VL 2	Mechanics II UE 2	Design (part 1)	Signals and Systems VL 3	Numerical Mathematics UE 2		
Mechanics I UE 2	Mechanics II HÜ 2	Embodiment Design and VL 2	Signals and Systems HÜ 1			

Programming in C PR 1	Mathematics II Linear Algebra II VL 2 Linear Algebra II UE 1 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II UE 1	3D-CAD Mechanical Design TT 3 Project I Fundamentals of Materials Science (part 1) Fundamentals of VL 2 Materials Science I Physical and Chemical VL 2 Basics of Materials Science Advanced Mechanical	MED I: Introduction to Anatomy Introduction to Anatomy VL 2	MED II: Introduction to Biochemistry and Molecular Biology Introduction to VL 2 Biochemistry and Molecular Biology BIO I: Implants and Fracture	
Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers UE 1		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	Healing Implants and Fracture VL 2 Healing	
Nontechnical Complementary Cou	irses for Bachelors (from catalogu	e) - 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.