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

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

Legenc:

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

Focus Elective Compulsory

Interdisciplinary complement

Compulsory

LP Se	emester 1 Formers	/w&kemester2 FormHrs	/wSkemester 3 Formits	/w‰lemester4 FormH	rs/wSemester 5 Formilin	s/wSkemester 6 FormHrs	/w&kemester 7 Formitrs/
2 3 Ch	hemistry hemistry I VL 2 hemistry II VL 2 hemistry II HÜ 1 hemistry II HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: VL 3 Alternating Current Networks and Basic Devices Electrical Engineering II: UE 2 Alternating Current Networks and Basic Devices	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
7 8 Direction Selection Se	lectrical Engineering I: irect Current Networks and lectromagnetic Fields lectrical Engineering I: VL 3 irect Current Networks and Electromagnetic ields lectrical Engineering I: UE 2 irect Current Networks and Electromagnetic ields	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering Design	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	
14 Lin 15 Lin 16 Lin 17 An An	near Algebra I VL 2 near Algebra I UE 1 near Algebra I HÜ 1 nalysis I VL 2 nalysis I UE 1 nalysis I HÜ 1	Technical Thermodynamics I Technical VL 2 Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 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	Fundamentals of Production and Quality Management Production Process VL 2 Organization Quality Management VL 2	
19 20 21 22	echanics I (Statics)	Mechanics II: Mechanics of Materials  Mechanics II VL 2	Mechanical Engineering:	Signals and Systems	Numerical Mathematics I Numerical Mathematics VL 2		Bachelor Thesis
23 Me	echanics I VL 2	Mechanics II UE 2	Design (part 1)	Signals and Systems VL 3	Numerical Mathematics UE 2		
Me	echanics 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 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.