Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20) Legend: Core gualification

Sample course plan C Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Sr

ecialisation Mechanical	Engineering	, Focus Mechatronics	(German						alisation Elective Focus Elective		nterdisciplinary
Semester 1	Formit	/֍kemester 2	Formit	/vikemester 3	For h hrs/	Sikemester 4 Fo	r i mhrs/V	Compulsory Comp	uisory	hrs/wskemeste	er 7 For hi rs/
Chemistry Chemistry I+II Chemistry I+II	VL 4 HÜ 2	Electrical Engineerin Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1 UE 1	Signals and Systems Signals and Systems VL Signals and Systems UE	3	Introduction to Control Systems Introduction to VL 2 Control Systems Introduction to UE 2 Control Systems	Foundations of Management Introduction to VL Management Management Tutorial UE	GES	ed Internship AIW/
Electrical Engine Direct Current No and Electromagn Electrical Engineer Electrical Engineer Electromagnetic Fi Electrical Engineer I: Direct Current Networks and Electromagnetic Fi	etworks etic ing VL 3 elds ing UE 2	Fundamentals of Mechanical Engineer Design Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design	ring VL 2 HÜ 2	Mathematics III Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	UE 1 HÜ 1 VL 2 UE 1	Fluid Dynamics Fluid Mechanics VL Fluid Mechanics HÜ	3 2 	Measurement Technology for Mechanical Engineers Measurement VL 2 Technology for Mechanical HÜ 1 Engineering HÜ 1 Technology for Mechanical HÜ 1 Technology for Mechanical Prechanical 2 Practical Course: PR 2 Measurement and Control Systems 1	Electrical Machines and Actuators Electrical Machines VL and Actuators Electrical Machines HÜ and Actuators		
Mathematics I Linear Algebra I Linear Algebra I Linear Algebra I Linear Algebra I Analysis I Analysis I Analysis I	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	VL 2 HÜ 1 UE 1		VL 3 UE 2	Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics) Mechanics IV VL Mechanics IV UE Mechanics IV HÜ	3 2 1	Circuit Theory UE 2	Semiconductor Circuit Design Semiconductor Circuit VL Design Semiconductor Circuit UE Design	1	
Mechanics I (Stat Mechanics I Mechanics I Mechanics I	tics) VL 2 UE 2 HÜ 1	Mechanics II: Mecha of Materials Mechanics II Mechanics II Mechanics II	NL 2 UE 2 HÜ 2	Advanced Mechanica Engineering Design 1) Advanced Mechanical Engineering Design I	aı (part	Advanced Mechanical Engineering Design (pa 2) Advanced Mechanical VL Engineering Design II Advanced Mechanical HÜ Engineering Design II	rt (Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1	Mathematics IVComplex FunctionsVLComplex FunctionsHÜDifferential EquationsVL2V	2 1 1	or Thesis

Specialisation Compulsory Focus Compulsory

Compulsory

Thesis Compulsory

23 24		Engineering Design I Mechanical Engineering: Design (part 1) Embodiment Design VL 2 and 3D-CAD	Design (part 2)Team Project Design MethodologyMechanical Design Project II		2 Differential Equations HÜ 1 2	
25 26	Mathematics II Linear Algebra II VL 2	Mechanical Design PBL3 Project I	Fundamentals of Materials Science (part 2)	Simulation and Design of Mechatronic Systems		
	Linear Algebra II UE 1 Linear Algebra II HÜ 1		Fundamentals of VL 2 Materials Science II	Simulation and Design VL 2 of Mechatronic Systems		
27 28 Programming in C Programming in C VL 1	Analysis II VL 2 Analysis II HÜ 1	Fundamentals of Materials Science (part 1)		Simulation and Design HÜ 1 of Mechatronic		
Programming in C PR 1	Analysis II UE 1	Fundamentals of VL 2 Materials Science I		Systems Simulation and Design PR 1		
30 Physics for Engineers (AIW) Physics for Engineers VL 2		Physical and Chemical VL 2 Basics of Materials Science		of Mechatronic Systems		
31 Physics for Engineers UE 1 32 2 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Non-technical Courses for Back	nelors (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.