## **Course of Study General Engineering Science (German program, 7** semester) (Study Cohort w17) Legend: Core gualification

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

pecia	alisation Mechanical Engineering		<b>.</b>	r program, 7 semester/ (A					alisation Elective	Focus Elective Cor	npulsory
_P	Semester 1 Forh	htrs/1	ຜ່າຍester 2 Formins	Wokemester 3 Fo	or <b>im</b> irs/	ଏହା ଅନ୍ୟ ନେଏ ହେଏ କେ ସେଲା ସେଲା ସେଲା ଅନ୍ୟ କେ ଅନ୍ୟ କେ ସେଲା ସେଲା ସେଲା ସେଲା ସେଲା ସେଲା ସେଲା ସେଲ	r <b>ih</b> hrs/		/wikemester 6	FormHrs/	Silemester 7 Forhir
1 2 3 4 5 5	Chemistry Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1	2 2 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 Hi Thermodynamics II	L 2 Ü 1 E 1	Methodology Mechanical Design PB Project II Fundamentals of Materials Science (part Fundamentals of VL Materials Science II	L2 L3 : <b>2)</b>	Computer Engineering VL 3 Computer Engineering UE 1	Foundations of Management Introduction to Management Management Tut	VL 3	Advanced Internship AIW/ GES
7 3 9 10 11 12	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	3	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering Design	Analysis III UI	L 2 E 1 Ü 1 L 2 E 1	Advanced Mechanical         Engineering Design (particular)         Advanced Mechanical       VL         Engineering Design II       VL         Advanced Mechanical       HÜ         Advanced Mechanical       HÜ         Fluid Dynamics       Fluid Mechanics       VL         Fluid Mechanics       HÜ	2)2	Introduction to Control Systems Introduction to VL 2 Control Systems Introduction to UE 2 Control Systems	MED II: Introdu Physiology Introduction to Physiology BIO I: Experime Methods in Bio Experimental Me in Biomechanics	VL 2 ental mechanics	
.3 .4 .5 .6 .7 .8	Mathematics ILinear Algebra IVL 2Linear Algebra IUE 1Linear Algebra IHÜ 1Analysis IVL 2Analysis IUE 1Analysis IUE 1	2 1 2 1 1	Thermodynamics I	Mechanics III UI	L 3 E 2 Ü 1	Mechanics IV (Kinetics Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV VL Mechanics IV UE Mechanics IV HÜ	3	Technology for Mechanical and Process Engineers Measurement HÜ 1 Technology for Mechanical and Process Engineers Practical Course: PR 2 Measurement and Control Systems	Fundamentals Production and Management Production Proce Organization Quality Managen	<b>l Quality</b> Iss VL 2	
20 21	Mechanics I (Statics)		Mechanics II: Mechanics of Materials Mechanics II VL 2	Mechanical Engineerin	g:	Signals and Systems		Numerical Mathematics INumericalVLMathematics I			Bachelor Thesis

Specialisation Compulsory Focus Compulsory

Compulsory

Thesis Compulsory

22 23	Mechanics I U	/L 2 JE 2 <del>I</del> Ü 1		UE 2 HÜ 2	Design (part 1) Embodiment Design VL 2 and 3D-CAD Mechanical Design PBL3 Project I	Signals and Systems VL 3 Signals and Systems UE 2	Numerical UE 2 Mathematics I
24 25 26 27	Programming in C Programming in C VL 1	Linear Algebra II	VL 2 UE 1 HÜ 1	Fundamentals of Materials Science (part 1)Fundamentals of Materials Science IVL2Physical and Chemical Basics of MaterialsVL2	MED I: Introduction to Anatomy	MED II: Introduction to Biochemistry and Molecular Biology Introduction to VL 2 Biochemistry and	
28 29 30	Programming in C P Physics for Engineers (AIW)	PR 1	Analysis II Analysis II Analysis II	VL 2 HÜ 1 UE 1	Science Advanced Mechanical Engineering Design (part 1)	Introduction to VL 2 Anatomy	Molecular Biology BIO I: Implants and Fracture Healing
31 32	Physics for Engineers V Physics for Engineers U				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	Implants and Fracture VL 2 Healing
n	Nontechnical Complemen	ntary C	Courses for Bachelors (fro	om cata	logue) - 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.