Course of Study General Engineering Science (German program) (Study Cohort w14)

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

Core qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory

Core qualification Elective Specialisation Elective Focus Elective Compulsory Interdisciplinary complement

Compulsory Compulsory

LP	Semester 1	FormHrs/wk	Semester 2 FormHrs/v	K Semester 3 FormHrs/	vk Semester 4	FormHrs/w	Semester 5	FormHrs/wl	Semester 6	FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Current	Technical Thermodynamics II	Mechanical Engineering: Design (pa	art 2)	Introduction to Control Systems		Foundations of Management	
2	Physics for Engineers	VL 2	Networks and Basic Devices	Technical Thermodynamics II VL 2	Team Project Design Methodology	POL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 4
3	Physics for Engineers	UE 1	Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II HÜ 1	Mechanical Design Project II	TT 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
			Current Networks and Basic Devices	Technical Thermodynamics II UE 1						
4			Electrical Engineering II: Alternating UE 2 Current Networks and Basic Devices		Fundamentals of Materials Science	<u> </u>				
5	Chemistry		Canoni Nethonic and Basic Boyless		Fundamentals of Materials Science I	II VL 2				
6	Chemistry I	VL 2			Signals and Systems					
7	Chemistry II	VL 2	Fundamentals of Mechanical Engineering	Computer Engineering	Signals and Systems	VL 3	Measurement Technology for Mechan	ical and	BIO I: Implants and Testing (part 2)	
	Chemistry I	HÜ 1	Design	Computer Engineering VL 3	Signals and Systems	HÜ 1	Process Engineers	iicai aiiu	Experimental Methods in	2
8	Chemistry II	HÜ 1	Fundamentals of Mechanical VL 2	Computer Engineering UE 1			Measurement Technology for	VL 2	Biomechanics	-
9			Engineering Design	The part of the pa			Mechanical and Process Engineers			
10			Fundamentals of Mechanical HÜ 2				Measurement Technology for	HÜ 1	MED II: Medical Basics II (part 2)	
11	Electrical Engineering I: Direct Curre	nt	Engineering Design				Mechanical and Process Engineers		Introduction to Physiology	VL 2
	Networks and Electromagnetic Fields						Practical Course: Measurement and	PR 2		
12	Electrical Engineering I: Direct Current				Fluid Dynamics		Control Systems			
13	Networks and Electromagnetic Fields		Technical Thermodynamics I	Mathematics III	Fluid Mechanics	VL 3	BIO I: Implants and Testing (part 1)		Bachelor Thesis	
14	Electrical Engineering I: Direct Current	UE 2	Technical Thermodynamics I VL 2	Analysis III VL 2	Fluid Mechanics	HÜ 1	Implants and Fracture Healing	VL 2		
	Networks and Electromagnetic Fields		Technical Thermodynamics I HÜ 1	Analysis III UE 1						
15			Technical Thermodynamics I UE 1	Analysis III HÜ 1						
16				Differential Equations 1 VL 2			MED II: Medical Basics II (part 1)			
17	Mathematics I			Differential Equations 1 UE 1 Differential Equations 1 HÜ 1			· · · · · · · · · · · · · · · · · · ·	VL 2		
18	Linear Algebra I	VL 2		Differential Equations 1 HÜ 1	Mechanics IV (Kinetics II, Oscillation	ns.	Molecular Biology			
	Linear Algebra I	UE 1			Analytical Mechanics, Multibody Sys					
19	Linear Algebra I	HÜ 1	Mechanics II: Mechanics of Materials		Mechanics IV	VL 3	Numerical Mathematics I	VL 2		
20	Analysis I	VL 2	Mechanics II VL 2 Mechanics II UE 2		Mechanics IV	UE 2	Numerical Mathematics I Numerical Mathematics I	UE 2		
21	Analysis I	UE 1 HÜ 1	Wechanics II OL 2	Mechanics III (Hydrostatics, Kinematics,	Mechanics IV	HÜ 1	Numerical Mathematics 1	OL Z		
22	Analysis I	HU I		Kinetics I)						
				Mechanics III VL 3						
23				Mechanics III UE 2						
24				Mechanics III HÜ 1	MED I: Medical Basics I					
25	Mechanics I (Statics)		Mathematics II		Introduction to Radiology and	VL 2	Heat Transfer			
26	Mechanics I	VL 2	Linear Algebra II VL 2		Radiation Therapy Introduction to Anatomy	VL 2	Heat Transfer	VL 3		
_	Mechanics I	UE 2	Linear Algebra II UE 1	Markadad Fadaradan Badan (ant 4)	intioduction to Anatomy	VL Z	Heat Transfer	HÜ 1		
27	Mechanics I	HÜ 1	Linear Algebra II HÜ 1	Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL 2						
28			Analysis II VL 2	Mechanical Design Project I TT 3						
29			Analysis II HÜ 1 Analysis II UE 1	moonanioa boolgii i lojetti i i i i						
30			Analysis II UE 1	Fundamentals of Materials Science (part 1)	Fundamentals of Production and Qua	ality				
				Fundamentals of Materials Science I VL 2	Management					
31				Physical and Chemical Basics of VL 2	Production Process Organization	VL 2				
32				Materials Science	Quality Management	VL 2				
33			Programming in C							
34			Programming in C VL 1							
0-			Drawnming in C							

	Programming in C	PH	1
35	Physics for Engineers (part 2)		
36	Physics-Lab for ET/IIW-Engineers	PR	1

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.