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

Sample course plan A 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

Compulsory Compulsory

1											
	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Current	Technical Thermodynamics II		Mechanical Engineering: Design (pa	rt 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
	Physics for Engineers	UE 1	Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II HÜ		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 Nomenia and Basic Beriose			Fundamentals of Materials Science I	I 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	ioui una	Experimental Methods in	2
8	Chemistry II	HÜ 1	Fundamentals of Mechanical VL 2	Computer Engineering UE				Measurement Technology for	VL 2	Biomechanics	_
9			Engineering Design					Mechanical and Process Engineers			
10			Fundamentals of Mechanical HÜ 2						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 Control Systems	PR 2		
12	Electrical Engineering I: Direct Current	t VL 3				Fluid Dynamics Fluid Mechanics	VL 3	Contion Systems			
13	Networks and Electromagnetic Fields		Technical Thermodynamics I	Mathematics III		Fluid Mechanics Fluid Mechanics	VL 3 HÜ 1	BIO I: Implants and Testing (part 1)		Bachelor Thesis	
14	Electrical Engineering I: Direct Current	t UE 2	Technical Thermodynamics I VL 2	Analysis III VL		Fluid Mechanics	но і	Implants and Fracture Healing	VL 2		
15	Networks and Electromagnetic Fields		Technical Thermodynamics I HÜ 1	Analysis III UE							
			Technical Thermodynamics I UE 1	Analysis III HÜ  Differential Equations 1 VL							
16				Differential Equations 1 VE				MED II: Medical Basics II (part 1) Introduction to Biochemistry and	VL 2		
- 11	Mathematics I			Differential Equations 1 HÜ				Molecular Biology	VL 2		
18	Linear Algebra I	VL 2				Mechanics IV (Kinetics II, Oscillation	ıs,	morodalar Elology			
10	Linear Algebra I	UE 1 HÜ 1	Mechanics II: Mechanics of Materials			Analytical Mechanics, Multibody Sys	stems)	Numerical Mathematics I			
	Linear Algebra I Analysis I	HU 1 VL 2	Mechanics II VL 2			Mechanics IV	VL 3	Numerical Mathematics I	VL 2		
	Analysis I	UE 1	Mechanics II UE 2			Mechanics IV	UE 2	Numerical Mathematics I	UE 2		
21	Analysis I	HÜ 1		Mechanics III (Hydrostatics, Kinematics,		Mechanics IV	HÜ 1				
22				Kinetics I)  Mechanics III VL							
23				Mechanics III VL Mechanics III UE							
24				Mechanics III HÜ		MED I: Medical Basics I					
						Introduction to Radiology and	VL 2				
	Mechanics I (Statics)		Mathematics II			Radiation Therapy	VL 2	Heat Transfer			
26	Mechanics I	VL 2	Linear Algebra II VL 2			Introduction to Anatomy	VL 2	Heat Transfer Heat Transfer	VL 3 HÜ 1		
27	Mechanics I Mechanics I	UE 2 HÜ 1	Linear Algebra II UE 1 Linear Algebra II HÜ 1	Mechanical Engineering: Design (part 1)				Heat Transfer	HU I		
28	Wednames i	110 1	Analysis II VL 2	Embodiment Design and 3D-CAD VL	2						
			Analysis II HÜ 1	Mechanical Design Project I TT	3						
29			Analysis II UE 1								
30				Fundamentals of Materials Science (part 1	_	Electrical Machines					
31				Fundamentals of Materials Science I VL		Electrical Machines	VL 3				
32				Physical and Chemical Basics of VL	2	Electrical Machines	HÜ 2				
				Materials Science							
33			Programming in C								
34			Programming in C VL 1								

	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.