## Course of Study General Engineering Science (German program) (Study Cohort w15)

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

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

LP	Semester 1 F	ormHrs/wk	Semester 2 FormHrs/w	k Semester 3 FormHrs	wk Semester 4	FormHrs/wk	Semester 5 Fr	ormHrs/wk	Semester 6	FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Current	Technical Thermodynamics II	Mechanical Engineering: Design (p	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
_	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
3			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	e (part 2)				
5	Chemistry		Current Networks and Basic Devices		Fundamentals of Materials Science	ell VL 2				
6	Chemistry I	VL 2			Signals and Systems					
-	Chemistry II	VL 2			Signals and Systems	VL 3				
7	Chemistry I	HÜ 1	Fundamentals of Mechanical Engineering	Computer Engineering	Signals and Systems	HÜ 1	Measurement Technology for Mechanic	cal and	BIO I: Implants and Testing (part 2)	
8	Chemistry II	HÜ 1	Fundamentals of Mechanical VL 2	Computer Engineering VL 3	organic and options		Process Engineers	VL 2	Experimental Methods in	VL 2
9			Fundamentals of Mechanical VL 2 Engineering Design	Computer Engineering UE 1			Measurement Technology for  Mechanical and Process Engineers	VL 2	Biomechanics	
-			Fundamentals of Mechanical HÜ 2					HÜ 1	MED II. Madical Davids II (want 0)	
10			Engineering Design				Mechanical and Process Engineers		MED II: Medical Basics II (part 2)	\(\(\text{\tint{\text{\tin}\text{\tex{\tex
11	Electrical Engineering I: Direct Current	t					Practical Course: Measurement and F	PR 2	Introduction to Physiology	VL 2
12	Networks and Electromagnetic Fields				Fluid Dynamics		Control Systems			
13	Electrical Engineering I: Direct Current	VL 3	Technical Thermodynamics I	Mathematics III	Fluid Mechanics	VL 3	BIO I: Implants and Testing (part 1)		Bachelor Thesis	
	Networks and Electromagnetic Fields  Electrical Engineering I: Direct Current I	IIE o	Technical Thermodynamics I VL 2	Analysis III VL 2	Fluid Mechanics	HÜ 1		VL 2	Dudiciol Tilesis	
14	Networks and Electromagnetic Fields	0E 2	Technical Thermodynamics I HÜ 1	Analysis III UE 1			implants and Flactore Fleating	VL 2		
15	Tromonio and Electromagnetic Florage		Technical Thermodynamics I UE 1	Analysis III HÜ 1						
16				Differential Equations 1 VL 2			MED II: Medical Basics II (part 1)			
_				Differential Equations 1 UE 1			Introduction to Biochemistry and	VL 2		
17	Mathematics I			Differential Equations 1 HÜ 1			Molecular Biology			
18	· ·	VL 2			Mechanics IV (Kinetics II, Oscillation					
19	=	UE 1 HÜ 1	Mechanics II: Mechanics of Materials		Analytical Mechanics, Multibody S		Numerical Mathematics I			
20		VL 2	Mechanics II VL 2		Mechanics IV	VL 3	Numerical Mathematics I	VL 2		
-		UE 1	Mechanics II UE 2		Mechanics IV	UE 2	Numerical Mathematics I	UE 2		
21	*	HÜ 1	Mechanics II HÜ 2	Mechanics III (Hydrostatics, Kinematics,	Mechanics IV	HÜ 1				
22	,			Kinetics I)						
23				Mechanics III VL 3 Mechanics III UE 2						
_				Mechanics III UE 2  Mechanics III HÜ 1						
24				- HU I	MED I: Medical Basics I					
25	Mechanics I (Statics)		Mathematics II		Introduction to Radiology and Radiation Therapy	VL 2	Heat Transfer			
26	Mechanics I	VL 2	Linear Algebra II VL 2		Introduction to Anatomy	VL 2		VL 3		
27		UE 2	Linear Algebra II UE 1	Mechanical Engineering: Design (part 1)		VL 2	Heat Transfer	HÜ 1		
-	Mechanics I	HÜ 1	Linear Algebra II HÜ 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	moonamed Bodgi Flojoot 1						
30			Analysis II UE 1	Fundamentals of Materials Science (part 1)	Electrical Machines					
_				Fundamentals of Materials Science I VL 2	Electrical Machines	VL 3				
31				Physical and Chemical Basics of VL 2	Electrical Machines	HÜ 2				
32				Materials Science						
33			Programming in C							
34			Programming in C VL 1							
0-4			Browning in C							

	Programming in C	PK	- 1
35	Physics for Engineers (part 2)		
36	Physics-Lab for ET/ AIW/ GES	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.