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

Sample course plan C Bachelor General Engineering Science (German program) (AIWBS) Specialisation Mechanical Engineering, Focus Biomechanics Legend: Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Spec	ialisation Mechanical Engi	ineeri	ng, Focus Biomechani	CS			Core qualification Elective Compulsory		cialisation Elective npulsory	Focus Elective Con	pulsory	Interdisciplinary com	plement
LP	Semester 1 For	rmHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/w	Semester 5	FormHrs/wk	Semester 6		FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating	Current	Technical Thermodynamics II		Mechanical Engineering: Design (pa	rt 2)	Introduction to Control System	ems	Foundations	of Management	
2	· · · · ·	L 2	Networks and Basic Devices		Technical Thermodynamics II	VL 2	Team Project Design Methodology	POL 2	Introduction to Control Syste			o Management	VL 4
3	Physics for Engineers UE	E 1	Electrical Engineering II: Alternating		Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	тт з	Introduction to Control Syste	ems UE 2	Project Entre	preneurship	POL 2
4	-		Current Networks and Basic Devices Electrical Engineering II: Alternating		Technical Thermodynamics II	UE 1	Eurodemontolo of Materialo Caianas ((mart 0)					
-			Current Networks and Basic Devices				Fundamentals of Materials Science						
5	Chemistry	L 2											
6	· · · · · · · · · · · · · · · · · · ·	L 2					Signals and Systems						
7	Chemistry I HU		Fundamentals of Mechanical Engine	ering	Computer Engineering		Signals and Systems	VL 3 HÜ 1	Measurement Technology for	or Mechanical and	BIO I: Implan	ts and Testing (part 2)	
8	Chemistry II HU	Ü 1	Design		Computer Engineering	VL 3	Signals and Systems	HU I	Process Engineers		Experimental		VL 2
9	1		Fundamentals of Mechanical Engineering Design	VL 2	Computer Engineering	UE 1			Measurement Technology for Mechanical and Process En		Biomechanic	S	
10	-		Fundamentals of Mechanical	HÜ 2					Measurement Technology for	-		cal Basics II (part 2)	
			Engineering Design						Mechanical and Process En	ngineers	Introduction t		VL 2
11	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields								Practical Course: Measurem	ent and PR 2		,	
12	Electrical Engineering I: Direct Current VI	L 3					Fluid Dynamics		Control 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 The	sis	
14	Electrical Engineering I: Direct Current UE	E 2	Technical Thermodynamics I	VL 2	Analysis III	VL 2	Fluid Mechanics	HU I	Implants and Fracture Healir	ng VL 2			
15	Networks and Electromagnetic Fields		Technical Thermodynamics I	HÜ 1	Analysis III	UE 1 HÜ 1							
16	-		Technical Thermodynamics I	UE 1	Analysis III Differential Equations 1	NU 1 VL 2			MED II: Medical Basics II (p	art 1)			
					Differential Equations 1	UE 1			Introduction to Biochemistry				
17	Mathematics I Linear Algebra I VI	L 2			Differential Equations 1	HÜ 1			Molecular Biology				
18	e e e e e e e e e e e e e e e e e e e	E 1					Mechanics IV (Kinetics II, Oscillation						
19	Linear Algebra I HU		Mechanics II: Mechanics of Material	s			Analytical Mechanics, Multibody System Mechanics IV	VL 3	Numerical Mathematics I				
20	Analysis I VI	L 2	Mechanics II	VL 2			Mechanics IV	UE 2	Numerical Mathematics I	VL 2			
21	Analysis I UE		Mechanics II Mechanics II	UE 2 HÜ 2	Mechanics III (Hydrostatics, Kinema	atics,	Mechanics IV	HÜ 1	Numerical Mathematics I	UE 2			
22	Analysis I Hi	Ü 1	Mechanics II	HU 2	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 Radiation Therapy	VL 2	Heat Transfer				
26		L 2	Linear Algebra II	VL 2			Introduction to Anatomy	VL 2	Heat Transfer	VL 3			
27		E 2 Ü 1	Linear Algebra II Linear Algebra II	UE 1 HÜ 1	Mechanical Engineering: Design (pa	art 1)			Heat Transfer	HÜ 1			
28			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	u ,	Advanced Materials						
31					Fundamentals of Materials Science Physical and Chemical Basics of	I VL 2 VL 2	Advanced Materials Characterization Advanced Materials Design	VL 2 VL 2					
32					Materials Science	VL Z	Advanced Materials Design	HÜ 2					
33	1		Programming in C										
34			Programming in C	VL 1									
5.			Browning in C	DD 4									

		PRI
35	5 Physics for Engineers (part 2)	
36	6 Physics-Lab for ET/ AIW/ GES	PR 1
	Nontechnical Complementary Courses for Bachelors (from catalog	jue) - 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.