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

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

Legend:

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/wk Semester 3 FormHrs/wk		Semester 4 FormHrs/wk		Semester 5 FormHrs/wk		k Semester 6 FormHrs/wk		
1	Chemistry (GES)		Physics for Engineers (GES) (part 2)	Technical Thermodynamics II		Mechanical Engineering: Design (part 2)		Introduction to Control Systems		Foundations of Management	
2	Chemistry I	VL 2	Physics-Lab for ET/ AIW/ GES PR 1	Technical Thermodynamics II	VL 2	Team Project Design Methodology	POL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 4
3	Chemistry II	VL 2	Fundamentals of Mechanical Engineering	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	TT 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
	Chemistry I	HÜ 1	Design	Technical Thermodynamics II	UE 1						
4	Chemistry II	HÜ 1	Fundamentals of Mechanical VL 2	-		Fundamentals of Materials Science	<u> </u>				
5			Engineering Design			Fundamentals of Materials Science	II VL 2				
6			Fundamentals of Mechanical HÜ 2			Signals and Systems					
7	Linear Algebra		Engineering Design	Computer Engineering		Signals and Systems	VL 3	Measurement Technology for Mechan	aiaal and	BIO I: Implants and Testing (part 2)	
	Linear Algebra Linear Algebra	VL 4		Computer Engineering Computer Engineering	VL 3	Signals and Systems	HÜ 1	Process Engineers	nicai and	Experimental Methods in	VL 2
8	Linear Algebra	VL 4 HÜ 2		Computer Engineering Computer Engineering	UE 1			Measurement Technology for	VL 2	Biomechanics	VL Z
9	Linear Algebra	UE 2	Technical Thermodynamics I	Computer Engineering	OL I			Mechanical and Process Engineers			
10			Technical Thermodynamics I VL 2					Measurement Technology for	HÜ 1	MED II: Medical Basics II (part 2)	
-			Technical Thermodynamics I HÜ 1					Mechanical and Process Engineers		Introduction to Physiology	VL 2
11			Technical Thermodynamics I UE 1					Practical Course: Measurement and	PR 2		
12						Fluid Dynamics		Control Systems			
13				Mathematics III		Fluid Mechanics	VL 3	BIO I: Implants and Testing (part 1)		Bachelor Thesis	
14				Analysis III	VL 2	Fluid Mechanics	HÜ 1	Implants and Fracture Healing	VL 2		
				Analysis III	UE 1						
15	Electrical Engineering I		Mathematical Analysis	Analysis III	HÜ 1						
16	Electrical Engineering I Electrical Engineering I	VL 3 UE 2	Mathematical Analysis VL 4 Mathematical Analysis HÜ 2	Differential Equations 1	VL 2			MED II: Medical Basics II (part 1)			
17	Electrical Engineering i	UE 2	Mathematical Analysis HÜ 2 Mathematical Analysis UE 2	Differential Equations 1	UE 1			Introduction to Biochemistry and	VL 2		
18			Wathernation / Wathernation OL 2	Differential Equations 1	HÜ 1	Mechanics IV (Kinetics II, Oscillatio	nne	Molecular Biology			
						Analytical Mechanics, Multibody Sy	1				
19						Mechanics IV	VL 3	Numerical Mathematics I			
20						Mechanics IV	UE 2	Numerical Mathematics I	VL 2		
21	Mechanics I (GES)			Mechanics III (GES)		Mechanics IV	HÜ 1	Numerical Mathematics I	UE 2		
22	Mechanics I	VL 2		Mechanics III	HÜ 1						
	Mechanics I	HÜ 3		Mechanics III	UE 2						
23			Electrical Engineering II	Mechanics III	VL 3						
24			Electrical Engineering II VL 3			MED I: Medical Basics I					
25			Electrical Engineering II UE 2			Introduction to Radiology and	VL 2	Heat Transfer			
26						Radiation Therapy	\/I 0	Heat Transfer	VL 3		
	Dharles for Fords (OFO) (Manhaniani Fant I But I		Introduction to Anatomy	VL 2	Heat Transfer	HÜ 1		
27	Physics for Engineers (GES) (part 1)	VL 2		Mechanical Engineering: Design (pa							
28	Physics for Engineers Physics for Engineers	UE 1		Embodiment Design and 3D-CAD Mechanical Design Project I	VL 2 TT 3						
29	, sics for Engineers	JL I	Mechanics II (GES)	conamour beargin i toject i	11 3						
30			Mechanics II VL 2	Fundamentals of Materials Science ((part 1)	Electrical Machines					
			Mechanics II HÜ 2	Fundamentals of Materials Science I		Electrical Machines	VL 3			l.	
31				Physical and Chemical Basics of	VL 2	Electrical Machines	HÜ 2				
32				Materials Science							
33											
34											
J-1											

Programming in C		
Programming in C VL	1	1
Programming in C PR	1	1
Pr	ogramming in C VL	ogramming in C VL

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.