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 Mechatronics

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Legend:

Core qualification Compulsory

Core qualification Elective

Compulsory

Focus Compulsory

Interdisciplinary complement

LP	Semester 1	FormHrs/wk	Semester 2 Fo	ormHrs/wk	Semester 3	FormHrs/wl	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	Chemistry (GES)		Physics for Engineers (GES) (part 2)		Technical Thermodynamics II		Mechanical Engineering: Design (par	rt 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	ıg	Technical Thermodynamics II	UE 1						
4	Chemistry II	HÜ 1		/L 2			Fundamentals of Materials Science (
5			Engineering Design				Fundamentals of Materials Science II	VL 2				
6			Fundamentals of Mechanical	łÜ 2			Advanced Mechanical Engineering D	Design				
7	Linear Algebra		Engineering Design		Commission Empirecyling		(part 2)	3	Measurement Technology for Mech	aniaal and	Semiconductor Circuit Design	
	Linear Algebra	VL 4			Computer Engineering Computer Engineering	VL 3	Advanced Mechanical Engineering	VL 2	Process Engineers	ianicai and	Semiconductor Circuit Design	VL 3
8	Linear Algebra	HÜ 2			Computer Engineering	UE 1	Design II		Measurement Technology for	VL 2	Semiconductor Circuit Design	UE 1
	Linear Algebra	UE 2			Computer Engineering	02 1	Advanced Mechanical Engineering	HÜ 2	Mechanical and Process Engineers		Connection Chedit Design	OL 1
							Design II		Measurement Technology for	HÜ 1		
9			Technical Thermodynamics I				Signals and Systems		Mechanical and Process Engineers			
10			*	/L 2			Signals and Systems	VL 3	Practical Course: Measurement and	I PR 2		
11			*	lÜ 1			Signals and Systems	HÜ 1	Control Systems			
			Technical Thermodynamics I U	JE 1								
12												
13					Mathematics III				Simulation of Dynamic Systems an	d	Mathematics IV	
14					Analysis III	VL 2			Reliability		Complex Functions	VL 2
15	Electrical Engineering I		Mathematical Analysis		Analysis III	UE 1	Fluid Dynamics		Simulation of Dynamic Systems	VL 2	Complex Functions	UE 1
	Electrical Engineering I	VL 3		/L 4	Analysis III	HÜ 1	Fluid Mechanics	VL 3	Reliability of Dynamic Systems Simulation of Dynamic Systems	VL 2 UE 1	Complex Functions	HÜ 1
16	Electrical Engineering I	UE 2	· · · · · · · · · · · · · · · · · · ·	∃Ü 2	Differential Equations 1 Differential Equations 1	VL 2 UE 1	Fluid Mechanics	HÜ 1	Reliability of Dynamic Systems	UE 1	Differential Equations 2 Differential Equations 2	VL 2 UE 1
17	3 11 3		•	JE 2	Differential Equations 1	HÜ 1			Hendonity of Dynamic Gystems	OL 1	Differential Equations 2	HÜ 1
18					Differential Equations 1	110 1					Differential Equations 2	110 1
19									Electrical Engineering III: Circuit T	heory and	Bachelor Thesis	
									Transients	neory and	Duonicioi Titosis	
20									Circuit Theory	VL 3		
21	Mechanics I (GES)				Mechanics III (GES)		Mechanics IV (Kinetics II, Oscillation		Circuit Theory	UE 2		
22	Mechanics I	VL 2			Mechanics III	HÜ 1	Analytical Mechanics, Multibody Sys					
23	Mechanics I	HÜ 3	Electrical Engineering II		Mechanics III	UE 2	Mechanics IV	VL 3				
_				/L 3	Mechanics III	VL 3	Mechanics IV	UE 2				
24			• •	JE 2			Mechanics IV	HÜ 1				
25			J 11 mg m									
26												
27	Physics for Engineers (GES) (part 1)				Mechanical Engineering: Design (pa	art 1)	Electrical Machines					
28	Physics for Engineers	VL 2			Embodiment Design and 3D-CAD	VL 2	Electrical Machines	VL 3				
	Physics for Engineers	UE 1			Mechanical Design Project I	TT 3	Electrical Machines	HÜ 2				
29			Mechanics II (GES)									
30				/L 2 IÜ 2	Fundamentals of Materials Science	(part 1)						
31			Mechanics II	10 2	Fundamentals of Materials Science					'		
32					Physical and Chemical Basics of	VL 2						
02					Materials Science							

34	Programming in C		Advanced Mechanical Engineering Design (part 1)					
35	-9	VL 1 PR 1	Advanced Mechanical Engineering VL 2 Design I Advanced Mechanical Engineering HÜ 2					
			Design I					

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.