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

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

Mathematical Membrane   Math	LP	Semester 1 FormHr	s/wk Semester 2 FormHrs	wk Semester 3 FormHrs/w	k Semester 4 FormHrs/wl	Semester 5 FormHrs/wl	Semester 6 FormHrs/wk
Contact   Cont	1	Chemistry (GES)	Physics for Engineers (GES) (part 2)	Technical Thermodynamics II	Mechanical Engineering: Design (part 2)	Introduction to Control Systems	Foundations of Management
Mathematic   Mat	2	Chemistry I VL 2	Physics-Lab for ET/IIW-Engineers PR 1		Team Project Design Methodology POL 2	Introduction to Control Systems VL 2	Introduction to Management VL 4
Company   Comp	3	•			Mechanical Design Project II TT 3	Introduction to Control Systems UE 2	Project Entrepreneurship POL 2
Part	_		Decign	Technical Thermodynamics II UE 1	Fundamentals of Materials Colones (new 2)		
Compute   Comp	<u> </u>	Chemistry ii		-			
Compare   Comp	5				Tulidamentals of Materials Science if VL 2		
Compare Engineering   Vi. 2   Compare Engineering   Vi. 3   Compare Engineering   Vi. 2   Compare Engineering   Vi. 2   Compare Engineering   Vi. 3   Comp	6						
Compare Engineering   Vision   Vision   Compare Engineering   Vision   Vision   Compare Engineering   Vision   Vis	7	Linear Algebra		Computer Engineering		Measurement Technology for Mechanical and	Semiconductor Circuit Design
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Despire   Technical Thermodynamics   VL 2   Technical Thermodynamics   V				Computer Engineering UE 1	ŭ .	0,	Semiconductor Circuit Design UE 1
Signals and Systems		Linear Algebra UE 2			Design II		
Technical Themodynamics   H0   1   Technical Themodynamics   H0   1   Technical Themodynamics   UE   2   Technical Tenjmoring   UE   2   Technical Engineering   VL   2   Technical Engi	9		Technical Thermodynamics I		Signals and Systems	0,	
Tochrical Themodynamics   No   1   Tochrical Them	10		Technical Thermodynamics I VL 2		Signals and Systems VL 3	Practical Course: Measurement and PR 2	
13					Signals and Systems HÜ 1	Control Systems	
Mathematical Management   Mathematical Analysis   Mathematical Mathematical Mathematical Mathematical Materials Science (part 1)	_		Technical Thermodynamics I UE 1				
Analysis							
14   15	13						
Secretical Engineering   VL   3   Mathematical Analysis   VL   4   Mathematical Analysis   VL   4   Mathematical Analysis   VL   2	14						·
Fleetical Engineering   VL   3   Mathematical Analysis   VL   4   Mathematical Analysis   VL   4   Mathematical Analysis   VL   2   Differential Equations   VL   2   Differen	15	Electrical Engineering I	Mathematical Analysis	The state of the s	Fluid Dynamics		
Part	16	Electrical Engineering I VL 3	Mathematical Analysis VL 4	The state of the s	Fluid Mechanics VL 3		
Differential Equations 1   HU   1		Electrical Engineering I UE 2	Mathematical Analysis HÜ 2	Differential Equations 1 UE 1	Fluid Mechanics HÜ 1	Reliability of Dynamic Systems UE 1	Differential Equations 2 UE 1
19   20   20   20   20   20   20   20   2	_		Mathematical Analysis UE 2	Differential Equations 1 HÜ 1			Differential Equations 2 HÜ 1
Mechanics   GES   Mechanics   GES   Mechanics   GES   Mechanics   GES   Mechanics   GES   Mechanics   HÜ 3   Mechanics   GES   Mechanics   HÜ 4   Mechanics   HÜ 5   M	18						
Mechanics   (GES)	19					, ,	Bachelor Thesis
Mechanics I (GES)   Mechanics I   VL 2   Mechanics II   HÜ 1   Mechanics III   HÜ 1   Mechanics III   HÜ 1   Mechanics III   Mechanics III   HÜ 1   Mechanics III   Mechanics III   Wechanics III   VL 3   Mechanics IV   UE 2   Mechanics IV   UE 2	20						
Mechanics   VL   2   Mechanics   II   HÜ   1   Mechanics   II   HÜ   1   Mechanics   IV   VL   3   Mechanics   IV   HÜ   1   Mechanics   IV   HÜ	21	Mechanics I (GES)		Mechanics III (GES)	Mechanics IV (Kinetics II, Oscillations,	· ·	
Mechanics I HÜ 3  Electrical Engineering II VL 3  Mechanics III VL 2  Mechanics IV VL 3  Mechanics IV VL 1  Mechanics IV VL 1  Mechanics IV VL 2  Mechanics IV VL 2  Mechanics IV VL 2  Mechanics IV VL 2  Advanced Materials  Advanced Materials Characterization VL 2  Advanced Materials Design HÜ 2  Mechanics II VL 2  Physical and Chemical Basics of VL 2  Physical and Chemical Basics of VL 2  Mechanics III VL 2  Physical and Chemical Basics of VL 2  Mechanics IV VL 3  Mechanics IV VL 3  Mechanics IV VL 3  Mechanics IV VL 2  Advanced Materials Design VL 2  Advanced Materials Design HÜ 2  Mechanics IV VL 3  Mechanics IV VL 3  Mechanics IV VL 2  Advanced Materials Design VL 2  Advanced Materials Design HÜ 2  Mechanics IV VL 3  Mechanics IV VL 3  Mechanics IV VL 2  Advanced Materials Design VL 2  Advanced Materials Design HÜ 2  Mechanics IV VL 2  Advanced Materials Design HÜ 2	22	Mechanics I VL 2		Mechanics III HÜ 1	Analytical Mechanics, Multibody Systems)	onean moory of 2	
Electrical Engineering II VL 3 Electrical Engineering II VL 2  Physics for Engineers (GES) (part 1)  28 Physics for Engineers VL 2 Physics for Engineers UE 1  Mechanics II (GES)  Mechanics II VL 2 Mechanics II VL 2 Physical and Chemical Basics of VL 2	-	Mechanics I HÜ 3		Mechanics III UE 2	Mechanics IV VL 3		
Electrical Engineering II  UE 2  Physics for Engineers (GES) (part 1)  Physics for Engineers  UE 1  Physics for Engineers  UE 1  Mechanics II (GES)  Mechanics II  UE 2  Mechanical Engineering: Design (part 1)  Embodiment Design and 3D-CAD VL 2  Mechanical Design Project I  TT 3  Advanced Materials  Advanced Materials  Advanced Materials Characterization VL 2  Advanced Materials Design VL 2  Physical and Chemical Basics of VL 2  Physical and Chemical Basics of VL 2  Physical and Chemical Basics of VL 2				_ Mechanics III VL 3			
25 26 27 Physics for Engineers (GES) (part 1) 28 Physics for Engineers 29 Physics for Engineers 30 Wechanics II (GES) Mechanics II VL 2 HÜ 2 HÜ 2 Mechanics II VL 2 Physical and Chemical Basics of VL 2	24				Mechanics IV HU 1		
Physics for Engineers (GES) (part 1) Physics for Engineers Physics	25		Electrical Engineering ii				
Physics for Engineers VL 2 Physics for Engineers VE 1  Mechanics II (GES)  Mechanics II VL 2 Mechanics II VL 2 Mechanics II VL 2 Mechanics II VL 2 Physical and Chemical Basics of VL 2 Mechanics II VL 2 Physical and Chemical Basics of VL 2 Methanics II VL 2 Mechanics II VL 2 Mechani	26						
Physics for Engineers VL 2 Physics for Engineers VE 1  Mechanics II (GES)  Mechanics II VL 2 Mechanical Design Project I VL 2 Mechanical Design Project I VL 2 Mechanical Design Project I VL 2 Mechanics II VL 2	27	Physics for Engineers (GES) (part 1)		Mechanical Engineering: Design (part 1)	Advanced Materials		
Physics for Engineers  UE 1  Mechanics II (GES)  Mechanics II VL 2  Physical and Chemical Basics of VL 2  Materials Science  Mechanics II VL 2  Physical and Chemical Basics of VL 2  Materials Science  Mechanics II VL 2  Physical and Chemical Basics of VL 2  Materials Science  Mechanics II VL 2  Physical and Chemical Basics of VL 2	_	Physics for Engineers VL 2		Embodiment Design and 3D-CAD VL 2	Advanced Materials Characterization VL 2		
Mechanics II VL 2 Mechanics II VL 2 HÛ 2 Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of VL 2  Materials Science  Materials Science		Physics for Engineers UE		Mechanical Design Project I TT 3			
31  32  Mechanics II  H  U  2  H  U  2  H  U  2  H  U  2  H  U  2  H  U  2  H  U  2  H  U  A  Materials Science (part 1)  Fundamentals of Materials Science   VL   2  Physical and Chemical Basics of   VL   2  Materials Science  Materials Science					Advanced Materials Design HÜ 2		
31  32  Prundamentals of Materials Science I VL 2 Physical and Chemical Basics of VL 2  Materials Science	30						
32 Materials Science	31		110 2				
Materials Science	32			Physical and Gnemical Basics of VL 2			
	33	1		Materials Science			

34				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.