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

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

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Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

LP	Semester 1	FormHrs/w	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	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/IIW-Engineers	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 Enginee	rina	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	ТТ 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
4	Chemistry II	HÜ 1 HÜ 1	Design	9	Technical Thermodynamics II	UE 1	Fundamentals of Materials Science (	mart (2)				
-	Chemistry ii	но т	Fundamentals of Mechanical	VL 2			Fundamentals of Materials Science (					
5			Engineering Design				rundamentals of Materials Science in	I VL Z				
6			Fundamentals of Mechanical Engineering Design	HÜ 2			Advanced Mechanical Engineering D	Design				
7	Linear Algebra		Engineering Design		Computer Engineering		(part 2)		Measurement Technology for Mech	anical and	Integrated Product Development and	t
8	Linear Algebra	VL 4			Computer Engineering	VL 3	Advanced Mechanical Engineering Design II	VL 2	Process Engineers		Lightweight Design	
	Linear Algebra	HÜ 2			Computer Engineering	UE 1	Advanced Mechanical Engineering	HÜ 2	Measurement Technology for	VL 2	Integrated Product Development I	VL 2
	Linear Algebra	UE 2					Design II		Mechanical and Process Engineers  Measurement Technology for	HÜ 1	Development of Lightweight Design Products	VL 2
9			Technical Thermodynamics I				Signals and Systems		Mechanical and Process Engineers		CAE-Team Project	POL 2
10			Technical Thermodynamics I	VL 2			Signals and Systems	VL 3	Practical Course: Measurement and	I PR 2	•	
11			Technical Thermodynamics I	HÜ 1			Signals and Systems	HÜ 1	Control Systems			
			Technical Thermodynamics I	UE 1								
12												
13					Mathematics III				Simulation of Dynamic Systems an	d	Aeronautical Systems	
14					Analysis III	VL 2			Reliability	\(\(\)	Air Transportation Systems	VL 2
15	Electrical Engineering I		Mathematical Analysis		Analysis III Analysis III	UE 1 HÜ 1	Fluid Dynamics		Simulation of Dynamic Systems Reliability of Dynamic Systems	VL 2 VL 2	Fundamentals of Aircraft Systems Fundamentals of Aircraft Systems	VL 2 UE 1
16	Electrical Engineering I	VL 3	Mathematical Analysis	VL 4	Differential Equations 1	VL 2	Fluid Mechanics	VL 3	Simulation of Dynamic Systems	UE 1	Air Transportation Systems	HÜ 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	,	
17			Mathematical Analysis	UE 2	Differential Equations 1	HÜ 1						
18												
19									Advanced Mechanical Design Project	ect	Bachelor Thesis	
20									Advanced Mechanical Design Proje	ect TT 4		
21	Mechanics I (GES)				Mechanics III (GES)		Mechanics IV (Kinetics II, Oscillation	ıs,				
22	Mechanics I	VL 2			Mechanics III	HÜ 1	Analytical Mechanics, Multibody Sys	stems)				
	Mechanics I	HÜ 3	Floatrical Engineering II		Mechanics III	UE 2	Mechanics IV	VL 3				
23			Electrical Engineering II  Electrical Engineering II	VL 3	Mechanics III	VL 3	Mechanics IV	UE 2				
24			Electrical Engineering II	UE 2			Mechanics IV	HÜ 1				
25												
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	Manhanian II (OFC)		Mechanical Design Project I	TT 3	Electrical Machines	HÜ 2				
29			Mechanics II (GES)  Mechanics II	VL 2								
30			Mechanics II  Mechanics II	VL 2 HÜ 2	Fundamentals of Materials Science	<u> </u>						
31				2	Fundamentals of Materials Science							
32	1				Physical and Chemical Basics of	VL 2						
00	†				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.