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

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

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Compulsory

Specialisation Elective

Specialisation Elective

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Thesis Compulsory

Interdisciplinary complement

LP	Semester 1 FormHr	s/wk Semester 2 FormH	s/wk Semester 3 Form	Hrs/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 (part 2)		Introduction to Control Systems		Foundations of Management	
2	Chemistry I 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	Toomingar monnogrammed in		Mechanical Design Project II	ТТ 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
4	Chemistry II HÜ 1	Decign	Technical Thermodynamics II UE	1	Fundamentals of Materials Science (nart 2\				
· .	Onemistry ii	Fundamentals of Mechanical VL	<u>-</u>		Fundamentals of Materials Science II	<u> </u>				
5		Engineering Design Fundamentals of Mechanical HÜ								
6		Fundamentals of Mechanical HÜ Engineering Design			Advanced Mechanical Engineering D	Design				
7	Linear Algebra	_	Computer Engineering		(part 2) Advanced Mechanical Engineering	VI 2	Measurement Technology for Mech	anical and	Integrated Product Development and	d
8	Linear Algebra VL 4		Computer Engineering VL		Design II	VL 2	Process Engineers	\(\(\)	Lightweight Design	
	Linear Algebra HÜ 2 Linear Algebra UE 2		Computer Engineering UE	1	Advanced Mechanical Engineering	HÜ 2	Measurement Technology for Mechanical and Process Engineers	VL 2	Integrated Product Development I Development of Lightweight Design	VL 2 VL 2
	Lifedi Algebia OE 2		_		Design II		Measurement Technology for	HÜ 1	Products	VL 2
9		Technical Thermodynamics I	_		Signals and Systems		Mechanical and Process Engineers		CAE-Team Project	POL 2
10		Technical Thermodynamics I VL			Signals and Systems	VL 3	Practical Course: Measurement and	PR 2		
11		Technical Thermodynamics I HÜ Technical Thermodynamics I UE			Signals and Systems	HÜ 1	Control Systems			
12		Teermiear memieaynamies i								
13			Mathematics III				Simulation of Dynamic Systems an	4	Aeronautical Systems	
			Analysis III VL	2			Reliability	•	Air Transportation Systems	VL 2
14			Analysis III UE				Simulation of Dynamic Systems	VL 2	Fundamentals of Aircraft Systems	VL 2
15	Electrical Engineering I	Mathematical Analysis		1	Fluid Dynamics		Reliability of Dynamic Systems	VL 2	Fundamentals of Aircraft Systems	UE 1
16	Electrical Engineering I VL 3 Electrical Engineering I UE 2		Differential Equations 1 VL		Fluid Mechanics Fluid Mechanics	VL 3 HÜ 1	Simulation of Dynamic Systems	UE 1	Air Transportation Systems	HÜ 1
17	Electrical Engineering I OE 2	Mathematical Analysis UE	Differential Equations 1		Fluid Mechanics	по і	Reliability of Dynamic Systems	UE 1		
18			Differential Equations I HU	'						
19							Advanced Mechanical Design Proje	ect	Bachelor Thesis	
							Advanced Mechanical Design Proje			
20							,			
21	Mechanics I (GES)	_	Mechanics III (GES)	_	Mechanics IV (Kinetics II, Oscillation Analytical Mechanics, Multibody Sys	1				
22	Mechanics I VL 2 Mechanics I HÜ 3		Mechanics III HÜ Mechanics III UE		Mechanics IV	VL 3				
23	Wednames I	Electrical Engineering II	Mechanics III VL		Mechanics IV	UE 2				
24		Electrical Engineering II VL			Mechanics IV	HÜ 1				
25		Electrical Engineering II UE								
26	-									
	D	_								
27	Physics for Engineers (GES) (part 1) Physics for Engineers VL 2	_	Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL	2	Fundamentals of Production and Qua Management	lity				
28	Physics for Engineers VE 2		Mechanical Design Project I		Production Process Organization	VL 2				
29	,	Mechanics II (GES)	_		Quality Management	VL 2				
30		Mechanics II VL	rundamentals of Materials Science (part 1))						
31		Mechanics II HÜ	Fundamentals of Materials Science I VL	2						
32	+		Physical and Chemical Basics of VL	2						
	-		Materials Science							
33	I									

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.