Course of Study Mechanical Engineering (Study Cohort w23)

	_				Core Qualificat	tion Compulsory	Specialisation Compulsory	Focus Compul:	Sory Thesis Compulsory	
ample	e course plan A Bachelor Mechanica	l Engineering (MBBS)			Core Qualificat	tion Elective Co	mpulsory Specialisation Elective Compulsory	Focus Elective	Compulsory Interdisciplinary comple	ement
ecia	lisation Aircraft Systems Engineering									
1.	Mathematics I	Fundamentals of Mechanical Engineering Design	Advanced Manharland Frankrandon Barbar (and 1	7)	Advanced Market Late Control of Control	(	Advanced Marchael and Barder Burland		Foundations of Management	
	Mathematics I VL 4	Fundamentals of Mechanical Engineering Design  Fundamentals of Mechanical Engineering Design VL 2	Advanced Mechanical Engineering Design (part 1  Advanced Mechanical Engineering Design I VL	. 2	Advanced Mechanical Engineering Design  Advanced Mechanical Engineering Design II	(part 2) VL 2	Advanced Mechanical Design Project  Advanced Mechanical Design Project	PBL 4	Introduction to Management	VL :
	Mathematics I HŪ 2	Fundamentals of Mechanical Engineering Design HÜ 2	Advanced Mechanical Engineering Design I HÜ		Advanced Mechanical Engineering Design II	HÜ 2	Advanced Mechanical Design Floject	100 4	Management Tutorial	GÜ 2
3	Mathematics I GÜ 2									
1			Mechanical Engineering: Design (part 1)		Mechanical Engineering: Design (part 2)					
5				. 2	Team Project Design Methodology	PBL 2				
			and Practical Training		Mechanical Design Project II	PBL 3				
6			Mechanical Design Project I PBL	L 3						
7		Technical Thermodynamics I	Basics of Electrical Engineering		Fluid Dynamics		Introduction to Control Systems		Digital Product Development and Lightwe	ight Desig
8		Technical Thermodynamics I VL 2	Basics of Electrical Engineering VL	. 3	Fluid Mechanics	VL 3	Introduction to Control Systems	VL 2	Digital Product Development	VL 2
9		Technical Thermodynamics I HÜ 1	Basics of Electrical Engineering GÜ	) 2	Fluid Mechanics	HŪ 2	Introduction to Control Systems	GÜ 2	Development of Lightweight Design Products	VL 2
	Fundamentals of Materials Science  Fundamentals of Materials Science II VL 2	Technical Thermodynamics I GÜ 1							CAE-Team Project	PBL 2
10	Fundamentals of Materials Science I VL 2  Fundamentals of Materials Science I VL 2									
11	Physical and Chemical Basics of Materials Science VL 2									
12										
L3		Production Engineering  Production Engineering I VL 2	Technical Thermodynamics II	. 2	Computational Mechanics	IV 2	Measurement Technology for Mechanica	-	Aeronautical Systems	VL :
14		Production Engineering I         VL         2           Production Engineering II         VL         2	Technical Thermodynamics II VL Technical Thermodynamics II HÜ		Computational Multibody Dynamics Computational Mechanics	GÜ 2	Measurement Technology for Mechanical Engineering	VL 2	Air Transportation Systems Fundamentals of Aircraft Systems	VL .
15	Team Project MB	Production Engineering II HÜ 1	The state of the s	) 1	Computational Stuctural Mechanics	IV 2	Measurement Technology for Mechanical	PR 2	Fundamentals of Aircraft Systems	GÜ 1
16	Team Project MB PBL 6	Production Engineering I HÜ 1	,				Engineering		Air Transportation Systems	HÜ 1
							Practical Course: Measurement and Control	PR 2		
17							Systems			
18										
19		Mathematics II	Mathematics III		Modeling, Simulation and Optimization (E	N)			Bachelor Thesis	
20		Mathematics II VL 4	Analysis III VL	. 2	Modeling, Simulation and Optimization	IV 4				
-		Mathematics II HÜ 2		) 1						
21	Computer Science for Engineers - Introduction and Overview	Mathematics II GÜ 2		) 1						
22	Computer Science for Engineers - Introduction VL 3			. 2						
23	and Overview			) 1						
24	Computer Science for Engineers - Introduction GÜ 2		Differential Equations 1 HU	, 1						
	and Overview									
25					Electrical Machines and Actuators Electrical Machines and Actuators	VL 3				
26					Electrical Machines and Actuators	HÜ 2				
27	Engineering Mechanics I (Stereostatics)	Engineering Mechanics II (Elastostatics)	Engineering Mechanics III (Dynamics)							
28	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2		. 3						
	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2		) 2						
29	Engineering Mechanics I HŪ 1	Engineering Mechanics II HÜ 2	Engineering Mechanics III HÜ	) 1						
30										
31										
32										
12										

Non-technical 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.