Course of Study Mechanical Engineering (Study Cohort w23)

Sample course plan A Bachelor Mechanical Engineering (MBBS) Dual study program

ppecia	isation Aircraft Systems Engineering					
1	Mathematics I	Fundamentals of Mechanical Engineering Design	Advanced Mechanical Engineering Design (part 1)	Advanced Mechanical Engineering Design (part 2)	Advanced Mechanical Design Project	Foundations of Management
2	Mathematics I VL 4	Fundamentals of Mechanical Engineering Design VL 2	Advanced Mechanical Engineering Design I VL 2	Advanced Mechanical Engineering Design II VL 2	Advanced Mechanical Design Project PBL 4	Introduction to Management VL 3
3	Mathematics I HŪ 2	Fundamentals of Mechanical Engineering Design HÜ 2	Advanced Mechanical Engineering Design I HÜ 2	Advanced Mechanical Engineering Design II HŪ 2		Management Tutorial GŪ 2
	Mathematics I GÜ 2					
4			Mechanical Engineering: Design (part 1)	Mechanical Engineering: Design (part 2)		
5			Embodiment Design and 3D-CAD Introduction VL 2 and Practical Training	Team Project Design Methodology PBL 2		
6			Mechanical Design Project I PBL 3	Mechanical Design Project II PBL 3		
7		Technical Thermodynamics I	Basics of Electrical Engineering	Fluid Dynamics	Introduction to Control Systems	Digital Product Development and Lightweight Design
,		Technical Thermodynamics I VL 2	Basics of Electrical Engineering VL 3	Fluid Dynamics Fluid Mechanics VL 3	Introduction to Control Systems VL 2	Digital Product Development and Lightweight Design Digital Product Development VL 2
8		Technical Thermodynamics I HÜ 1	Basics of Electrical Engineering GŪ 2	Fluid Mechanics HŪ 2	Introduction to Control Systems GÜ 2	Development of Lightweight Design Products VL 2
9	Fundamentals of Materials Science	Technical Thermodynamics I GÜ 1				CAE-Team Project PBL 2
10	Fundamentals of Materials Science II VL 2					
11	Fundamentals of Materials Science I VL 2					
	Physical and Chemical Basics of Materials Science VL 2					
12						
13		Production Engineering	Technical Thermodynamics II	Practical module 4 (dual study program, Bachelor's	Measurement Technology for Mechanical Engineers	Aeronautical Systems
14		Production Engineering I VL 2	Technical Thermodynamics II VL 2	degree) Practical term 4 0	Measurement Technology for Mechanical VL 2	Air Transportation Systems VL 2
15	Team Project MB	Production Engineering II VL 2 Production Engineering II HÜ 1	Technical Thermodynamics II HŨ 1 Technical Thermodynamics II GŨ 1	Practical term 4 0	Engineering Measurement Technology for Mechanical PR 2	Fundamentals of Aircraft Systems VL 2 Fundamentals of Aircraft Systems GŪ 1
16	Team Project MB PBL 6	Production Engineering I HÜ 1	Technical Thermodynamics II GU 1		Engineering	Air Transportation Systems HÜ 1
		House and the second seco			Practical Course: Measurement and Control PR 2	
17					Systems	
18						
19		Mathematics II	Mathematics III	Computational Mechanics	Practical module 5 (dual study program, Bachelor's	Bachelor thesis (dual study program)
20		Mathematics II VL 4	Analysis III VL 2	Computational Multibody Dynamics IV 2	degree)	
		Mathematics II HÜ 2	Analysis III GŪ 1	Computational Mechanics GÜ 2	Practical term 5 0	
21	Computer Science for Engineers - Introduction and	Mathematics II GÜ 2	Analysis III HÜ 1	Computational Stuctural Mechanics IV 2		
22	Overview Computer Science for Engineers - Introduction VL 3		Differential Equations 1 VL 2			
23	and Overview		Differential Equations 1 GŪ 1			
24	Computer Science for Engineers - Introduction GÜ 2		Differential Equations 1 HÜ 1			
	and Overview					
25				Modeling, Simulation and Optimization (EN)		
26				Modeling, Simulation and Optimization IV 4		
27	Practical module 1 (dual study program, Bachelor's	Practical module 2 (dual study program, Bachelor's	Practical module 3 (dual study program, Bachelor's			
28	degree)	degree)	degree)			
	Practical term 1 0	Practical term 2 0	Practical term 3 0			
29						
30						
31				Electrical Machines and Actuators		
32				Electrical Machines and Actuators VL 3		
33				Electrical Machines and Actuators HÜ 2		
22	Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2	Engineering Mechanics II (Elastostatics) Engineering Mechanics II VL 2	Engineering Mechanics III (Dynamics) Engineering Mechanics III VL 3			
	VL 2	Engineering Mechanics II GÜ 2	Engineering Mechanics III GŪ 2			
34	Engineering Mechanics I GÜ 2					
-	Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 1	Engineering Mechanics II HÜ 2	Engineering Mechanics III HÜ 1			
34 35 36			Engineering Mechanics III HÜ 1			
35 36			Engineering Mechanics III HŪ 1			
35			Engineering Mechanics III HÜ 1			

Focus Compulsory

Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory

Thesis Compulsory

Interdisciplinary complement

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.