

Course of Study Mechanical Engineering (Study Cohort w21)

Sample course plan C Bachelor Mechanical Engineering (MBBS)

Legend	Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
	Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Specialisation Aircraft Systems Engineering

1	Production Engineering (part 1)	Production Engineering (part 2)	Advanced Mechanical Engineering Design (part 1)	Advanced Mechanical Engineering Design (part 2)	Advanced Mechanical Design Project	Foundations of Management
2	Production Engineering I VL 2	Production Engineering II 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	Production Engineering I HÜ 1	Production Engineering II HÜ 1	Advanced Mechanical Engineering Design I HÜ 2	Advanced Mechanical Engineering Design II HÜ 2		Management Tutorial GÜ 2
4	Mathematics I	Fundamentals of Materials Science (part 2)	Mechanical Engineering: Design (part 1)	Mechanical Engineering: Design (part 2)		
5	Linear Algebra I VL 2	Fundamentals of Materials Science II VL 2	Embodiment Design and 3D-CAD Introduction and Practical Training VL 2	Team Project Design Methodology PBL 2		
6	Linear Algebra I GÜ 1		Mechanical Design Project I PBL 3	Mechanical Design Project II PBL 3		
7	Linear Algebra I HÜ 1	Fundamentals of Mechanical Engineering Design				
8	Analysis I VL 2	Fundamentals of Mechanical Engineering Design VL 2	Basics of Electrical Engineering	Fluid Dynamics	Introduction to Control Systems	Digital Product Development and Lightweight Design
9	Analysis I GÜ 1	Fundamentals of Mechanical Engineering Design HÜ 2	Basics of Electrical Engineering VL 3	Fluid Mechanics VL 3	Introduction to Control Systems VL 2	Digital Product Development VL 2
10	Analysis I HÜ 1		Basics of Electrical Engineering GÜ 2	Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2	Development of Lightweight Design Products VL 2
11						CAE-Team Project PBL 2
12	Mechanics I (Statics)	Technical Thermodynamics I	Technical Thermodynamics II	Computational Mechanics	Measurement Technology for Mechanical Engineers	Aeronautical Systems
13	Mechanics I VL 2	Technical Thermodynamics I VL 2	Technical Thermodynamics II VL 2	Computational Multibody Dynamics IV 2	Measurement Technology for Mechanical Engineering VL 2	Air Transportation Systems VL 2
14	Mechanics I GÜ 2	Technical Thermodynamics I HÜ 1	Technical Thermodynamics II HÜ 1	Computational Mechanics GÜ 2	Measurement Technology for Mechanical Engineering PR 2	Fundamentals of Aircraft Systems VL 2
15	Mechanics I HÜ 1	Technical Thermodynamics I GÜ 1	Technical Thermodynamics II GÜ 1	Computational Structural Mechanics IV 2	Measurement Technology for Mechanical Engineering PR 2	Fundamentals of Aircraft Systems GÜ 1
16					Practical Course: Measurement and Control Systems PR 2	Air Transportation Systems HÜ 1
17						
18	Fundamentals of Materials Science (part 1)	Mechanics II: Mechanics of Materials	Mathematics III	Advanced Materials for Sustainability		Modeling, Simulation and Optimization (EN)
19	Fundamentals of Materials Science I VL 2	Mechanics II VL 2	Analysis III VL 2	Advanced Materials Characterization VL 2		Modeling, Simulation and Optimization IV 4
20	Physical and Chemical Basics of Materials Science VL 2	Mechanics II GÜ 2	Analysis III GÜ 1	Advanced Materials for Sustainability VL 2		
21		Mechanics II HÜ 2	Analysis III HÜ 1	Advanced Materials for Sustainability HÜ 2		
22	Team Project MB		Differential Equations 1 VL 2			
23	Team Project MB PBL 6		Differential Equations 1 GÜ 1			
24		Mathematics II	Differential Equations 1 HÜ 1			
25		Linear Algebra II VL 2				
26		Linear Algebra II GÜ 1				
27		Linear Algebra II HÜ 1				
28	Computer Science for Engineers - Introduction and Overview	Analysis II VL 2	Engineering Mechanics III (Dynamics)			
29	Computer Science for Engineers - Introduction and Overview VL 3	Analysis II HÜ 1	Engineering Mechanics III VL 3			
30	Computer Science for Engineers - Introduction and Overview GÜ 2	Analysis II GÜ 1	Engineering Mechanics III GÜ 2			
31			Engineering Mechanics III HÜ 1			
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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.

