

# Course of Study Mechanical Engineering (Study Cohort w21)

Sample course plan C Bachelor Mechanical Engineering (MBBS)

Specialisation Aircraft Systems Engineering												
1	<b>Production Engineering (part 1)</b>		<b>Production Engineering (part 2)</b>		<b>Advanced Mechanical Engineering Design (part 1)</b>		<b>Advanced Mechanical Engineering Design (part 2)</b>		<b>Advanced Mechanical Design Project</b>		<b>Foundations of Management</b>	
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	<b>Mathematics I</b>		<b>Fundamentals of Materials Science (part 2)</b>		<b>Mechanical Engineering: Design (part 1)</b>		<b>Mechanical Engineering: Design (part 2)</b>					
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 II PBL 3					
7	Linear Algebra I HÜ 1				Mechanical Design Project I PBL 3							
8	Analysis I VL 2		Fundamentals of Mechanical Engineering Design VL 2		<b>Basics of Electrical Engineering</b>		<b>Fluid Dynamics</b>		<b>Introduction to Control Systems</b>		<b>Digital Product Development and Lightweight Design</b>	
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	<b>Mechanics I (Statics)</b>		<b>Technical Thermodynamics I</b>									
13	Mechanics I VL 2		Technical Thermodynamics I VL 2									
14	Mechanics I GÜ 2		Technical Thermodynamics I HÜ 1		<b>Technical Thermodynamics II</b>		<b>Computational Mechanics</b>		<b>Measurement Technology for Mechanical Engineers</b>		<b>Aeronautical Systems</b>	
15	Mechanics I HÜ 1		Technical Thermodynamics I GÜ 1		Technical Thermodynamics II VL 2		Computational Multibody Dynamics IV 2		Measurement Technology for Mechanical Engineering VL 2		Air Transportation Systems VL 2	
16					Technical Thermodynamics II HÜ 1		Computational Mechanics GÜ 2		Engineering PR 2		Fundamentals of Aircraft Systems VL 2	
17					Technical Thermodynamics II GÜ 1		Computational Structural Mechanics IV 2		Measurement Technology for Mechanical Engineering PR 2		Fundamentals of Aircraft Systems GÜ 1	
18	<b>Fundamentals of Materials Science (part 1)</b>		<b>Mechanics II: Mechanics of Materials</b>						Practical Course: Measurement and Control Systems PR 2		Air Transportation Systems HÜ 1	
19	Fundamentals of Materials Science I VL 2		Mechanics II VL 2								<b>Modeling, Simulation and Optimization (EN)</b>	
20	Physical and Chemical Basics of Materials Science VL 2		Mechanics II GÜ 2		<b>Mathematics III</b>		<b>Advanced Materials for Sustainability</b>				Modeling, Simulation and Optimization IV 4	
21			Mechanics II HÜ 2		Analysis III VL 2		Advanced Materials Characterization VL 2					
22	<b>Team Project MB</b>				Analysis III GÜ 1		Advanced Materials for Sustainability VL 2					
23	Team Project MB PBL 6				Analysis III HÜ 1		Advanced Materials for Sustainability HÜ 2					
24					Differential Equations 1 VL 2							
25					Differential Equations 1 GÜ 1							
26					Differential Equations 1 HÜ 1							
27			<b>Mathematics II</b>									
28			Linear Algebra II VL 2									
29			Linear Algebra II GÜ 1									
30			Linear Algebra II HÜ 1									
31			Analysis II VL 2									
32			Analysis II HÜ 1									
33			Analysis II GÜ 1									
34	<b>Computer Science for Engineers - Introduction and Overview</b>				<b>Engineering Mechanics III (Dynamics)</b>							
35	Computer Science for Engineers - Introduction and Overview VL 3				Engineering Mechanics III VL 3							
36	Computer Science for Engineers - Introduction and Overview GÜ 2				Engineering Mechanics III GÜ 2							
37	Computer Science for Engineers - Introduction and Overview HÜ 1				Engineering Mechanics III HÜ 1							
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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

