

# Course of Study Mechanical Engineering (Study Cohort w23)

Sample course plan A Bachelor Mechanical Engineering (MBBS)

Specialisation Aircraft Systems Engineering																			
1	<b>Mathematics I</b> Mathematics I VL 4 Mathematics I HÜ 2 Mathematics I GÜ 2			<b>Fundamentals of Mechanical Engineering Design</b> Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2			<b>Advanced Mechanical Engineering Design (part 1)</b> Advanced Mechanical Engineering Design I VL 2 Advanced Mechanical Engineering Design I HÜ 2			<b>Advanced Mechanical Engineering Design (part 2)</b> Advanced Mechanical Engineering Design II VL 2 Advanced Mechanical Engineering Design II HÜ 2			<b>Advanced Mechanical Design Project</b> Advanced Mechanical Design Project PBL 4			<b>Foundations of Management</b> Introduction to Management VL 3 Management Tutorial GÜ 2			
2																			
3																			
4							<b>Mechanical Engineering: Design (part 1)</b> Embodiment Design and 3D-CAD Introduction VL 2 and Practical Training Mechanical Design Project I PBL 3			<b>Mechanical Engineering: Design (part 2)</b> Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3									
5																			
6																			
7																			
8	<b>Fundamentals of Materials Science</b> Fundamentals of Materials Science II VL 2 Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials Science VL 2			<b>Technical Thermodynamics I</b> Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1			<b>Basics of Electrical Engineering</b> Basics of Electrical Engineering VL 3 Basics of Electrical Engineering GÜ 2			<b>Fluid Dynamics</b> Fluid Mechanics VL 3 Fluid Mechanics HÜ 2			<b>Introduction to Control Systems</b> Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2			<b>Digital Product Development and Lightweight Design</b> Digital Product Development VL 2 Development of Lightweight Design Products VL 2 CAE-Team Project PBL 2			
9																			
10																			
11																			
12																			
13																			
14																			<b>Team Project MB</b> Team Project MB PBL 6
15																			
16																			
17																			
18																			
19																			
20	<b>Computer Science for Engineers - Introduction and Overview</b> Computer Science for Engineers - Introduction VL 3 and Overview Computer Science for Engineers - Introduction GÜ 2 and Overview			<b>Mathematics II</b> Mathematics II VL 4 Mathematics II HÜ 2 Mathematics II GÜ 2			<b>Mathematics III</b> Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1			<b>Modeling, Simulation and Optimization (EN)</b> Modeling, Simulation and Optimization IV 4			<b>Bachelor Thesis</b>						
21																			
22																			
23																			
24																			
25																			
26																			
27	<b>Engineering Mechanics I (Stereostatics)</b> Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 1			<b>Engineering Mechanics II (Elastostatics)</b> Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2 Engineering Mechanics II HÜ 2			<b>Engineering Mechanics III (Dynamics)</b> Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1			<b>Electrical Machines and Actuators</b> Electrical Machines and Actuators VL 3 Electrical Machines and Actuators HÜ 2									
28																			
29																			
30																			
31																			
32	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.

