

# Course of Study Mechanical Engineering (Study Cohort w23)

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

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 and Practical Training VL 2 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												
15												
16												
17												
18												
19												
20	<b>Computer Science for Engineers - Introduction and Overview</b> Computer Science for Engineers - Introduction and Overview VL 3 Computer Science for Engineers - Introduction and Overview GÜ 2		<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>Computational Mechanics</b> Computational Multibody Dynamics IV 2 Computational Mechanics GÜ 2 Computational Structural Mechanics IV 2		<b>Practical module 5 (dual study program, Bachelor's degree)</b> Practical term 5 0		<b>Bachelor thesis (dual study program)</b>	
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32	<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>Fundamentals of Production and Quality Management</b> Production Process Organization VL 2 Quality Management VL 2					
33												
34												
35												
36												
37												
38												
Linking theory and practice (dual study program, Bachelor's degree) (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.

