

# Course of Study Mechanical Engineering (Study Cohort w23)

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

Specialisation Biomechanics									
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	
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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>MED II: Introduction to Physiology</b> Introduction to Physiology VL 2  <b>BIO I: Experimental Methods in Biomechanics</b> Experimental Methods in Biomechanics VL 2	
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15	<b>Team Project MB</b> Team Project MB PBL 6	<b>Production Engineering</b> Production Engineering I VL 2 Production Engineering II VL 2 Production Engineering II HÜ 1 Production Engineering I HÜ 1	<b>Technical Thermodynamics II</b> Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1		<b>Practical module 4 (dual study program, Bachelor's degree)</b> Practical term 4 0		<b>Measurement Technology for Mechanical Engineers</b> Measurement Technology for Mechanical Engineering VL 2 Measurement Technology for Mechanical Engineering PR 2 Practical Course: Measurement and Control Systems PR 2	<b>Bachelor thesis (dual study program)</b>	
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22	<b>Computer Science for Engineers - Introduction and Overview</b> Computer Science for Engineers - Introduction 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		
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29	<b>Practical module 1 (dual study program, Bachelor's degree)</b> Practical term 1 0	<b>Practical module 2 (dual study program, Bachelor's degree)</b> Practical term 2 0	<b>Practical module 3 (dual study program, Bachelor's degree)</b> Practical term 3 0		<b>MED I: Introduction to Anatomy</b> Introduction to Anatomy VL 2		<b>MED II: Introduction to Biochemistry and Molecular Biology</b> Introduction to Biochemistry and Molecular Biology VL 2		
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36	<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>MED I: Introduction to Radiology and Radiation Therapy</b> Introduction to Radiology and Radiation Therapy VL 2		<b>BIO I: Implants and Fracture Healing</b> Implants and Fracture Healing VL 2		
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Linking theory and practice (dual study program, Bachelor's degree) - 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.

