

# Course of Study Mechanical Engineering (Study Cohort w23)

Sample course plan C Bachelor Mechanical Engineering (MBBS)

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>		<b>Advanced Mechanical Engineering Design (part 2)</b>		<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						Advanced Mechanical Engineering Design I VL 2		Advanced Mechanical Engineering Design II VL 2					
3						Advanced Mechanical Engineering Design I HÜ 2		Advanced Mechanical Engineering Design II HÜ 2					
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					
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7	<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	
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13	<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>Computational Mechanics</b> Computational Multibody Dynamics IV 2 Computational Mechanics GÜ 2 Computational Structural Mechanics IV 2		<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</b>	
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19	<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>MED I: Introduction to Anatomy</b>		<b>MED II: Introduction to Biochemistry and Molecular Biology</b>			
20								Introduction to Anatomy VL 2		Introduction to Biochemistry and Molecular Biology VL 2			
21								<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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25	<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>Advanced Materials for Sustainability</b> Advanced Materials Characterization VL 2 Advanced Materials for Sustainability VL 2 Advanced Materials for Sustainability HÜ 2					
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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.

