

# Course of Study Mechanical Engineering (Study Cohort w23)

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

Specialisation Energy Systems																			
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>			<b>Foundations of Management</b>							
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			Advanced Mechanical Engineering Design I HÜ 2	Advanced Mechanical Engineering Design II HÜ 2		Management Tutorial GÜ 2													
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													
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7			<b>Technical Thermodynamics I</b>			<b>Basics of Electrical Engineering</b>			<b>Fluid Dynamics</b>			<b>Introduction to Control Systems</b>			<b>Reciprocating Machinery (part 2)</b>				
8			Technical Thermodynamics I VL 2	Basics of Electrical Engineering VL 3	Fluid Mechanics VL 3	Introduction to Control Systems VL 2	Internal Combustion Engines I VL 2												
9	Technical Thermodynamics I HÜ 1	Basics of Electrical Engineering GÜ 2	Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2	Internal Combustion Engines I HÜ 1														
10	<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	Technical Thermodynamics I GÜ 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 VL 2 Engineering Measurement Technology for Mechanical PR 2 Engineering Practical Course: Measurement and Control PR 2 Systems			<b>Bachelor thesis (dual study program)</b>							
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18	<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>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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26	<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>Fundamentals of Production and Quality Management</b> Production Process Organization VL 2 Quality Management VL 2			<b>Heat Transfer</b> Heat Transfer VL 3 Heat Transfer HÜ 2													
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33									<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>Reciprocating Machinery (part 1)</b> Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines VL 1 Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines HÜ 1					
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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.

