

Course of Study Mechanical Engineering (Study Cohort w23)

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

Specialisation Theoretical Mechanical Engineering												
1	Mathematics I Mathematics I VL 4 Mathematics I HÜ 2 Mathematics I GÜ 2		Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2		Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering Design I VL 2 Advanced Mechanical Engineering Design I HÜ 2		Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering Design II VL 2 Advanced Mechanical Engineering Design II HÜ 2		Advanced Mechanical Design Project Advanced Mechanical Design Project PBL 4		Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2	
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7	Fundamentals of Materials Science 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 Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1		Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD Introduction VL 2 and Practical Training Mechanical Design Project I PBL 3		Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3					
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13	Team Project MB Team Project MB PBL 6		Production Engineering Production Engineering I VL 2 Production Engineering II VL 2 Production Engineering II HÜ 1 Production Engineering I HÜ 1		Technical Thermodynamics II Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1		Practical module 4 (dual study program, Bachelor's degree) Practical term 4 0		Measurement Technology for Mechanical Engineers Measurement Technology for Mechanical VL 2 Engineering Measurement Technology for Mechanical PR 2 Engineering Practical Course: Measurement and Control PR 2 Systems		Bachelor thesis (dual study program)	
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19	Computer Science for Engineers - Introduction and Overview Computer Science for Engineers - Introduction VL 3 and Overview Computer Science for Engineers - Introduction GÜ 2 and Overview		Mathematics II Mathematics II VL 4 Mathematics II HÜ 2 Mathematics II GÜ 2		Mathematics III 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		Computational Mechanics Computational Multibody Dynamics IV 2 Computational Mechanics GÜ 2 Computational Structural Mechanics IV 2		Practical module 5 (dual study program, Bachelor's degree) Practical term 5 0		Numerical Mathematics I Numerical Mathematics I VL 2 Numerical Mathematics I GÜ 2	
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25	Practical module 1 (dual study program, Bachelor's degree) Practical term 1 0		Practical module 2 (dual study program, Bachelor's degree) Practical term 2 0		Practical module 3 (dual study program, Bachelor's degree) Practical term 3 0		Advanced Materials for Sustainability Advanced Materials Characterization VL 2 Advanced Materials for Sustainability VL 2 Advanced Materials for Sustainability HÜ 2		Heat Transfer Heat Transfer VL 3 Heat Transfer HÜ 2			
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31	Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 1		Engineering Mechanics II (Elastostatics) Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2 Engineering Mechanics II HÜ 2		Engineering Mechanics III (Dynamics) Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1							
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37	Linking theory and practice (dual study program, Bachelor's degree) (from catalogue) - 6LP											
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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

