## Course of Study Mechanical Engineering (Study Cohort w23) Thesis Compulsory Sample course plan C Bachelor Mechanical Engineering (MBBS) Focus Elective Compulsory Interdisciplinary complement Specialisation Energy Systems Mathematics I Foundations of Management Fundamentals of Mechanical Engineering Design Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Design Project Fundamentals of Mechanical Engineering Design VL 2 Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design II Advanced Mechanical Design Project Introduction to Management 2 HŪ 2 Fundamentals of Mechanical Engineering Design HÜ 2 Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design II Management Tutorial GÜ 2 3 GÜ 2 Mathematics I Mechanical Engineering: Design (part 1) Mechanical Engineering: Design (part 2) Embodiment Design and 3D-CAD Introduction 5 and Practical Training Mechanical Design Project II Mechanical Design Project I Technical Thermodynamics I Basics of Electrical Engineering Fluid Dynamics Introduction to Control Systems Reciprocating Machinery (part 2) HÜ 1 Basics of Electrical Engineering Fluid Mechanics Introduction to Control Systems Internal Combustion Engines I HÜ 1 q **Fundamentals of Materials Science** GÜ 1 Technical Thermodynamics I Fundamentals of Materials Science II 10 Fundamentals of Materials Science I Bachelor Thesis Physical and Chemical Basics of Materials Science VL 2 12 13 Technical Thermodynamics II Computational Mechanics Measurement Technology for Mechanical Engineers Production Engineering Measurement Technology for Mechanical Production Engineering I 14 Production Engineering II VL 2 Technical Thermodynamics II Engineering 15 Team Project MB Measurement Technology for Mechanical HÜ 1 GÜ 1 Production Engineering II Technical Thermodynamics II Computational Stuctural Mechanics Team Project MB Engineering HÜ 1 16 Production Engineering I Practical Course: Measurement and Control 17 18 19 Advanced Materials for Sustainability Advanced Materials Characterization 20 Mathematics II Analysis III GÜ 1 Advanced Materials for Sustainability VL 2 Heat Transfer 21 Computer Science for Engineers - Introduction and HÜ 2 Mathematics II Analysis III HÜ 1 Advanced Materials for Sustainability Differential Equations 1 VI 2 Computer Science for Engineers - Introduction VL 3 Differential Equations 1 GŪ 1 23 Differential Equations 1 Computer Science for Engineers - Introduction GÜ 2 24 and Overview 25 Reciprocating Machinery (part 1) Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines Engineering Mechanics I (Stereostatics) Engineering Mechanics II (Elastostatics) Engineering Mechanics III (Dynamics) Gas and Steam Power Plants Engineering Mechanics I VI 2 Engineering Mechanics III VI 3 Gas and Steam Power Plants Engineering Mechanics II

GÜ 2

HÜ 1

Gas and Steam Power Plants

Non-technical Courses for Bachelors (from catalogue) - 6LP

GÜ 2

Engineering Mechanics II

Engineering Mechanics II

Engineering Mechanics I

Engineering Mechanics I

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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.

Engineering Mechanics III

Engineering Mechanics III