Course of Study Mechanical Engineering (Study Cohort w23)

Sample course plan A Bachelor Mechanical Engineering (MBBS)

Focus Compulsory Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory

Thesis Compulsory Interdisciplinary complement

| Mathematics I VL 4 Mathematics I VL 4 Mathematics I HÜ 2 Mathematics I GÜ 2 44 State State 56 State State | Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2 | Advanced Mechanical Engineering Design I VL 2 Advanced Mechanical Engineering Design I HÜ 2 Advanced Mechanical Engineering Design I HÜ 2 | Advanced Mechanical Engineering Design II VL 2 Advanced Mechanical Engineering Design II HŪ 2 Advanced Mechanical Engineering Design II HŪ 2 | Advanced Mechanical Design Project Advanced Mechanical Design Project PBL 4 | Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2 |
|---|--|--|---|---|--|
| | | Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD Introduction VL 2 and Practical Training Mechanical Design Project 1 PBL 3 | Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3 | | |
| | Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 | Basics of Electrical Engineering VL 3 Basics of Electrical Engineering GÜ 2 | Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2 | Introduction to Control Systems VL 2 Introduction to Control Systems GÛ 2 | MED II: Introduction to Physiology Introduction to Physiology VL 2 |
| Fundamentals of Materials Science II VL 2 Fundamentals of Materials Science II VL 2 Prundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials Science VL 2 | Technical Thermodynamics I GÜ 1 | | | | BIO I: Experimental Methods in Biomechanics Experimental Methods in Biomechanics VL 2 |
| | Production Engineering VL 2 | Technical Thermodynamics II Technical Thermodynamics II VL 2 | Computational Mechanics Computational Multibody Dynamics IV 2 | Measurement Technology for Mechanical Engineers Measurement Technology for Mechanical VL 2 | Bachelor Thesis |
| Team Project MB Team Project MB PBL 6 | Production Engineering II VL 2 Production Engineering II HÜ 1 Production Engineering I HÜ 1 | Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1 | Computational Mechanics GÜ 2 Computational Stuctural Mechanics IV 2 | Engineering Practical Course: Measurement and Control PR 2 Systems | |
| | Mathematics II Mathematics II VL 4 Mathematics II HI 2 | Mathematics III Analysis III VL 2 Analysis III GÜ 1 | MED I: Introduction to Anatomy Introduction to Anatomy VL 2 | MED II: Introduction to Biochemistry and Molecular Biology Introduction to Biochemistry and Molecular VL 2 | |
| Computer Science for Engineers - Introduction and Overview VL 3 Computer Science for Engineers - Introduction VL 3 and Overview VL 3 Computer Science for Engineers - Introduction GÜ 2 | Mathematics II GÜ 2 | Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1 | MED I: Introduction to Radiology and Radiation Therapy Introduction to Radiology and Radiation Therapy VL 2 | Biology BIO I: Implants and Fracture Healing Implants and Fracture Healing VL 2 | |
| and Overview | | | Electrical Machines and Actuators Electrical Machines and Actuators VL 3 Electrical Machines and Actuators HŪ 2 | | |
| Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 1 | Engineering Mechanics II (Elastostatics) VL 2 Engineering Mechanics II GŪ 2 Engineering Mechanics II HŪ 2 | Engineering Mechanics III (Dynamics) Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1 | | | |
| | Mathematics 1 HÜ 2 Mathematics 1 GÜ 2 Pundamentals of Materials Science VL 2 Fundamentals of Materials Science II VL 2 Fundamentals of Materials Science II VL 2 Physical and Chemical Basics of Materials Science VL 2 Physical and Chemical Basics of Materials Science VL 2 Team Project MB PBL 6 Ocmputer Science for Engineers - Introduction VL 3 and Overview GÜ 2 Computer Science for Engineers - Introduction GÜ 2 and Overview GÜ 2 Engineering Mechanics 1 (Stereostatics) VL 2 Engineering Mechanics 1 VL 2 | Mathematics I HÜ 2 Mathematics I GÜ 2 Fundamentals of Materials Science Fundamentals of Materials Science I VL 2 Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials Science VL 2 Physical and Chemical Basics of Materials Science VL 2 Production Engineering I HÜ 1 Production Engineering I HÜ 1 Production Engineering I HÜ 1 Mathematics II Materials I GÜ 2 Computer Science for Engineers - Introduction and Overview GÜ 2 Computer Science for Engineers - Introduction GÜ 2 and Overview GÜ 2 Engineering Mechanics I (| Mahematics I H0 2 Fundamentals of Machinal Engineering Design H0 2 Mahematics I Fundamentals of Materials Science VL 2 Production Engineering II VL 2 Technical Thermodynamics II Mahematics II Mathematics II Mathematics II Analysis III Norvivere Production Engineering III </td <td>Namewards1 No 2 Advanced Recharcial Engineering Design No 2</td> <td>bit bit bit<</td> bit< | Namewards1 No 2 Advanced Recharcial Engineering Design No 2 | bit bit< |

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.