Course of Study Mechanical Engineering (Study Cohort w17) Thesis Compulsory Sample course plan A Bachelor Mechanical Engineering (MBBS) Focus Flective Compulsory Interdisciplinary complement Specialisation Materials in Engineering Sciences ster 2 Form Hrs/wk Semester 3 Form Hrs/wk Semester 4 Form Hrs/wk Semester 6 Form Hrs/wk Semester 5 Form Hrs/wk Production Engineering (part 1) Production Engineering (part 2) Foundations of Management Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Design Project Production Engineering I Production Engineering II Advanced Mechanical Engineering Design I VL 2 Advanced Mechanical Engineering Design II VL 2 Advanced Mechanical Design Project Introduction to Management 2 Production Engineering I Production Engineering II Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design II Management Tutorial HÜ 2 3 Computer Science for Mechanical Engineers Fundamentals of Materials Science (part 2) Mechanical Engineering: Design (part 1) Mechanical Engineering: Design (part 2) Embodiment Design and 3D-CAD 5 Computer Science for Mechanical Engineers GÜ 2 Mechanical Design Project I Mechanical Design Project II **Fundamentals of Mechanical Engineering Design** Computer Science for Mechanical Engineers HÜ 1 Fundamentals of Mechanical Engineering Design VL 2 Basics of Electrical Engineering Fluid Dynamics Introduction to Control Systems Structural Materials (part 2) Fundamentals of Mechanical Engineering Design HÜ 2 Fundamentals of Mechanical Properties of 8 Basics of Electrical Engineering Fluid Mechanics Introduction to Control Systems **Enhanced Fundamentals of Materials Science**

HÜ 1

GÜ 1

GÜ 1

HÜ 1

VI 2

GŪ 1

GÜ 2

HÜ 1

Mechanics IV (Kinetics II, Oscillations, Analytical

Mechanics, Multibody Systems)

Mechanics IV

Mechanics IV

Electrical Machines

Electrical Machines

Enhanced Fundamentals: Metals

Measurement Technology for Mechanical and Process

Measurement Technology for Mechanical and VL 2

Measurement Technology for Mechanical and HÜ 1

Practical Course: Measurement and Control

Structural Materials (part 1)

Material Science Laboratory

Material Science Laboratory

Process Engineers

Welding Technology

Laboratory

GÜ 2

HÜ 2

Enhanced Fundamentals: Ceramics and

Enhanced Fundamentals: Ceramics and

Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP

GÜ

13

15

16 17

19

21

22

23

25

26 27

Analysis I

Analysis I

Mechanics I (Statics)

Fundamentals of Materials Science (part 1)

Physical and Chemical Basics of Materials Science VL 2

Fundamentals of Materials Science I

Mechanics I

Mechanics I

Mechanics I

Team Project MB

HÜ 1

VI 2

GÜ 1

GÜ 2

Technical Thermodynamics I

Technical Thermodynamics I

Technical Thermodynamics I

Technical Thermodynamics I

Machanice II

Mechanics II

Mechanics II

Mathematics II

Linear Algebra II

Linear Algebra II

Analysis II

Mechanics II: Mechanics of Materials

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

Technical Thermodynamics II

Technical Thermodynamics II

Technical Thermodynamics II

Analysis III

Analysis III

Mechanics III

Mechanics III

Differential Equations 1

Differential Equations 1

Differential Equations 1

Mechanics III (Hydrostatics, Kinematics, Kinetics I)

HÜ 1

GÜ 2

GÜ