

Course of Study Mechanical Engineering (Study Cohort w17)

Sample course plan C Bachelor Mechanical Engineering (MBBS)

| Specialisation: Mechatronics | | Semester 2 | | Semester 3 | | Semester 4 | | Semester 5 | | Semester 6 | |
|------------------------------|--|--|-------------|---|-------------|--|-------------|--|-------------|-------------------------------------|-------------|
| | Form Hrs/wk | | Form Hrs/wk | | Form Hrs/wk | | Form Hrs/wk | | Form Hrs/wk | | Form Hrs/wk |
| 1 | Production Engineering (part 1) | Production Engineering (part 2) | | Advanced Mechanical Engineering Design (part 1) | | Advanced Mechanical Engineering Design (part 2) | | Advanced Mechanical Design Project | | Foundations of Management | |
| 2 | Production Engineering I VL 2 | Production Engineering II VL 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 | Production Engineering I HÜ 1 | Production Engineering II HÜ 1 | | Advanced Mechanical Engineering Design I HÜ 2 | | Advanced Mechanical Engineering Design II HÜ 2 | | | | Management Tutorial HÜ 2 | |
| 4 | Computer Science for Mechanical Engineers | Fundamentals of Materials Science (part 2) | | Mechanical Engineering: Design (part 1) | | Mechanical Engineering: Design (part 2) | | | | | |
| 5 | Computer Science for Mechanical Engineers VL 2 | Fundamentals of Materials Science II VL 2 | | Embodiment Design and 3D-CAD VL 2 | | Team Project Design Methodology PBL 2 | | | | | |
| 6 | Computer Science for Mechanical Engineers GÜ 2 | | | Mechanical Design Project I PBL 3 | | Mechanical Design Project II PBL 3 | | | | | |
| 7 | Computer Science for Mechanical Engineers HÜ 1 | Fundamentals of Mechanical Engineering Design | | | | | | | | | |
| 8 | | Fundamentals of Mechanical Engineering Design VL 2 | | Basics of Electrical Engineering | | Fluid Dynamics | | Introduction to Control Systems | | Semiconductor Circuit Design | |
| 9 | | Fundamentals of Mechanical Engineering Design HÜ 2 | | Basics of Electrical Engineering VL 3 | | Fluid Mechanics VL 3 | | Introduction to Control Systems VL 2 | | Semiconductor Circuit Design VL 3 | |
| 10 | | | | Basics of Electrical Engineering GÜ 2 | | Fluid Mechanics HÜ 2 | | Introduction to Control Systems GÜ 2 | | Semiconductor Circuit Design GÜ 1 | |
| 11 | Mathematics I | | | | | | | | | | |
| 12 | Linear Algebra I VL 2 | | | | | | | | | | |
| 13 | Linear Algebra I GÜ 1 | | | | | | | | | | |
| 14 | Linear Algebra I HÜ 1 | Technical Thermodynamics I | | Technical Thermodynamics II | | Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems) | | Measurement Technology for Mechanical and Process Engineers | | Bachelor Thesis | |
| 15 | Analysis I VL 2 | Technical Thermodynamics I VL 2 | | Technical Thermodynamics II VL 2 | | Mechanics IV VL 3 | | Measurement Technology for Mechanical and Process Engineers VL 2 | | | |
| 16 | Analysis I GÜ 1 | Technical Thermodynamics I HÜ 1 | | Technical Thermodynamics II HÜ 1 | | Mechanics IV GÜ 2 | | Measurement Technology for Mechanical and Process Engineers HÜ 1 | | | |
| 17 | Analysis I HÜ 1 | Technical Thermodynamics I GÜ 1 | | Technical Thermodynamics II GÜ 1 | | Mechanics IV HÜ 1 | | Measurement Technology for Mechanical and Process Engineers PR 2 | | | |
| 18 | Mechanics I (Statics) | Mechanics II: Mechanics of Materials | | | | | | | | | |
| 19 | Mechanics I VL 2 | Mechanics II VL 2 | | Mathematics III | | Mathematics IV | | Simulation and Design of Mechatronic Systems | | | |
| 20 | Mechanics I GÜ 2 | Mechanics II GÜ 2 | | Analysis III VL 2 | | Complex Functions VL 2 | | Simulation and Design of Mechatronic Systems VL 2 | | | |
| 21 | Mechanics I HÜ 1 | Mechanics II HÜ 2 | | Analysis III GÜ 1 | | Complex Functions GÜ 1 | | Simulation and Design of Mechatronic Systems HÜ 1 | | | |
| 22 | | | | Analysis III HÜ 1 | | Complex Functions HÜ 1 | | Simulation and Design of Mechatronic Systems PR 1 | | | |
| 23 | | | | Differential Equations 1 VL 2 | | Differential Equations 2 VL 2 | | | | | |
| 24 | Fundamentals of Materials Science (part 1) | Mathematics II | | Differential Equations 1 GÜ 1 | | Differential Equations 2 GÜ 1 | | | | | |
| 25 | Fundamentals of Materials Science I VL 2 | Linear Algebra II VL 2 | | Differential Equations 1 HÜ 1 | | Differential Equations 2 HÜ 1 | | | | | |
| 26 | Physical and Chemical Basics of Materials Science VL 2 | Linear Algebra II GÜ 1 | | | | | | Advanced Materials | | | |
| 27 | | Linear Algebra II HÜ 1 | | | | | | Advanced Materials Characterization VL 2 | | | |
| 28 | Team Project MB | Analysis II VL 2 | | | | | | Advanced Materials Design VL 2 | | | |
| 29 | Team Project MB TT 6 | Analysis II HÜ 1 | | Mechanics III (Hydrostatics, Kinematics, Kinetics I) | | | | Advanced Materials Design HÜ 2 | | | |
| 30 | | Analysis II GÜ 1 | | Mechanics III VL 3 | | | | | | | |
| 31 | | | | Mechanics III GÜ 2 | | | | | | | |
| 32 | | | | Mechanics III HÜ 1 | | | | | | | |
| 33 | | | | | | | | | | | |

Nontechnical Complementary Courses for Bachelors (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.

