

# Course of Study Mechanical Engineering (Study Cohort w23)

Sample course plan B Bachelor Mechanical Engineering (MBBS)

Legend	Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
	Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Specialisation Energy Systems				
1	<b>Mathematics I</b>	<b>Fundamentals of Mechanical Engineering Design</b>	<b>Advanced Mechanical Engineering Design (part 1)</b>	<b>Advanced Mechanical Engineering Design (part 2)</b>
2	Mathematics I VL 4	Fundamentals of Mechanical Engineering Design VL 2	Advanced Mechanical Engineering Design I VL 2	Advanced Mechanical Engineering Design II VL 2
3	Mathematics I HÜ 2	Fundamentals of Mechanical Engineering Design HÜ 2	Advanced Mechanical Engineering Design I HÜ 2	Advanced Mechanical Engineering Design II HÜ 2
4	Mathematics I GÜ 2			
5			<b>Mechanical Engineering: Design (part 1)</b>	<b>Mechanical Engineering: Design (part 2)</b>
6			Embodiment Design and 3D-CAD Introduction and Practical Training VL 2	Team Project Design Methodology PBL 2
7			Mechanical Design Project I PBL 3	Mechanical Design Project II PBL 3
8		<b>Technical Thermodynamics I</b>	<b>Basics of Electrical Engineering</b>	<b>Fluid Dynamics</b>
9	<b>Fundamentals of Materials Science</b>	Technical Thermodynamics I VL 2	Basics of Electrical Engineering VL 3	Fluid Dynamics VL 3
10	Fundamentals of Materials Science II VL 2	Technical Thermodynamics I HÜ 1	Basics of Electrical Engineering GÜ 2	Fluid Dynamics HÜ 2
11	Fundamentals of Materials Science I VL 2	Technical Thermodynamics I GÜ 1		
12	Physical and Chemical Basics of Materials Science VL 2			
13		<b>Production Engineering</b>	<b>Technical Thermodynamics II</b>	<b>Computational Mechanics</b>
14		Production Engineering I VL 2	Technical Thermodynamics II VL 2	Computational Multibody Dynamics IV 2
15	<b>Team Project MB</b>	Production Engineering II VL 2	Technical Thermodynamics II HÜ 1	Computational Mechanics GÜ 2
16	Team Project MB PBL 6	Production Engineering II HÜ 1	Technical Thermodynamics II GÜ 1	Computational Structural Mechanics IV 2
17		Production Engineering I HÜ 1		
18				
19		<b>Mathematics II</b>	<b>Mathematics III</b>	<b>Fundamentals of Production and Quality Management</b>
20		Mathematics II VL 4	Analysis III VL 2	Production Process Organization VL 2
21	<b>Computer Science for Engineers - Introduction and Overview</b>	Mathematics II HÜ 2	Analysis III GÜ 1	Quality Management VL 2
22	Computer Science for Engineers - Introduction and Overview VL 3	Mathematics II GÜ 2	Analysis III HÜ 1	
23	Computer Science for Engineers - Introduction and Overview GÜ 2		Differential Equations 1 VL 2	<b>Heat Transfer</b>
24			Differential Equations 1 GÜ 1	Heat Transfer VL 3
25			Differential Equations 1 HÜ 1	Heat Transfer HÜ 2
26				<b>Reciprocating Machinery (part 1)</b>
27	<b>Engineering Mechanics I (Stereostatics)</b>	<b>Engineering Mechanics II (Elastostatics)</b>	<b>Engineering Mechanics III (Dynamics)</b>	Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines VL 1
28	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2	Engineering Mechanics III VL 3	Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines HÜ 1
29	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2	Engineering Mechanics III GÜ 2	
30	Engineering Mechanics I HÜ 1	Engineering Mechanics II HÜ 2	Engineering Mechanics III HÜ 1	<b>Gas and Steam Power Plants</b>
31				Gas and Steam Power Plants VL 3
32				Gas and Steam Power Plants HÜ 1

Non-technical 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.

