

# Course of Study Mechanical Engineering (Study Cohort w23)

Sample course plan C Bachelor Mechanical Engineering (MBBS)

Specialisation Materials in Engineering Sciences

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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>			<b>Advanced Mechanical Design Project</b>			<b>Foundations of Management</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	Advanced Mechanical Design Project	PBL	4	Introduction to Management	VL	3					
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				Management Tutorial	GÜ	2					
4							<b>Mechanical Engineering: Design (part 1)</b>			<b>Mechanical Engineering: Design (part 2)</b>													
5							Embodiment Design and 3D-CAD Introduction			VL	2	Team Project Design Methodology			PBL	2							
6							Mechanical Design Project I					Mechanical Design Project II			PBL	3							
7																							
8				<b>Technical Thermodynamics I</b>			<b>Basics of Electrical Engineering</b>			<b>Fluid Dynamics</b>			<b>Introduction to Control Systems</b>			<b>Enhanced Fundamentals of Materials Science</b>							
9				Technical Thermodynamics I			VL	2	Basics of Electrical Engineering			VL	3	Introduction to Control Systems			VL	2	Materials for Energy Storage and Conversion			VL	2
10				Technical Thermodynamics I			HÜ	1	Basics of Electrical Engineering			GÜ	2	Introduction to Control Systems			GÜ	2	Enhanced Fundamentals: Ceramics and Polymers			VL	2
11				Technical Thermodynamics I			GÜ	1											Enhanced Fundamentals: Ceramics and Polymers			HÜ	1
12																							
13																							
14				<b>Production Engineering</b>			<b>Technical Thermodynamics II</b>			<b>Computational Mechanics</b>			<b>Measurement Technology for Mechanical Engineers</b>			<b>Materials Engineering: Materials Selection, Processing and Modelling</b>							
15				Production Engineering I			VL	2	Technical Thermodynamics II			VL	2	Measurement Technology for Mechanical Engineering			VL	2	Materials Selection and Processing			VL	3
16				Production Engineering II			VL	2	Technical Thermodynamics II			HÜ	1	Engineering					Materials and Process Modeling			VL	3
17				Production Engineering II			HÜ	1	Technical Thermodynamics II			GÜ	1	Engineering			PR	2					
18				Production Engineering I			HÜ	1						Practical Course: Measurement and Control Systems			PR	2					
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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.

