

# Course of Study Mechanical Engineering (Study Cohort w21)

Sample course plan B Bachelor Mechanical Engineering (MBBS)

Specialisation: Theoretical Mechanical Engineering

		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	
1	<b>Production Engineering (part 1)</b>			<b>Production Engineering (part 2)</b>		<b>Advanced Mechanical Engineering Design (part 1)</b>		<b>Advanced Mechanical Engineering Design (part 2)</b>		<b>Advanced Mechanical Design Project</b>	
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 GÜ 2	
4	<b>Mathematics I</b>	<b>Fundamentals of Materials Science (part 2)</b>		<b>Mechanical Engineering: Design (part 1)</b>		<b>Mechanical Engineering: Design (part 2)</b>					
5	Linear Algebra I VL 2	Fundamentals of Materials Science II VL 2		Embodiment Design and 3D-CAD VL 2		Team Project Design Methodology PBL 2					
6	Linear Algebra I GÜ 1			Mechanical Design Project I PBL 3		Mechanical Design Project II PBL 3					
7	Linear Algebra I HÜ 1	<b>Fundamentals of Mechanical Engineering Design</b>									
8	Analysis I VL 2	Fundamentals of Mechanical Engineering Design VL 2									
9	Analysis I GÜ 1	Fundamentals of Mechanical Engineering Design HÜ 2									
10	Analysis I HÜ 1										
11											
12	<b>Mechanics I (Statics)</b>	<b>Technical Thermodynamics I</b>									
13	Mechanics I VL 2	Technical Thermodynamics I VL 2									
14	Mechanics I GÜ 2	Technical Thermodynamics I HÜ 1		<b>Technical Thermodynamics II</b>		<b>Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)</b>		<b>Measurement Technology for Mechanical Engineers</b>		<b>Bachelor Thesis</b>	
15	Mechanics I HÜ 1	Technical Thermodynamics I GÜ 1		Technical Thermodynamics II VL 2		Mechanics IV VL 3		Measurement Technology for Mechanical Engineering VL 2			
16				Technical Thermodynamics II HÜ 1		Mechanics IV GÜ 2		Measurement Technology for Mechanical Engineering HÜ 1			
17				Technical Thermodynamics II GÜ 1		Mechanics IV HÜ 1		Practical Course: Measurement and Control Systems PR 2			
18	<b>Fundamentals of Materials Science (part 1)</b>	<b>Mechanics II: Mechanics of Materials</b>									
19	Fundamentals of Materials Science I VL 2	Mechanics II VL 2									
20	Physical and Chemical Basics of Materials Science VL 2	Mechanics II GÜ 2		<b>Mathematics III</b>		<b>Fundamentals of Production and Quality Management</b>		<b>Numerical Mathematics I</b>			
21		Mechanics II HÜ 2		Analysis III VL 2		Production Process Organization VL 2		Numerical Mathematics I VL 2			
22	<b>Team Project MB</b>			Analysis III GÜ 1		Quality Management VL 2		Numerical Mathematics I GÜ 2			
23	Team Project MB PBL 6			Analysis III HÜ 1							
24		<b>Mathematics II</b>		Differential Equations 1 VL 2							
25		Linear Algebra II VL 2		Differential Equations 1 GÜ 1							
26		Linear Algebra II GÜ 1		Differential Equations 1 HÜ 1							
27		Linear Algebra II HÜ 1						<b>Heat Transfer</b>			
28	<b>Computer Science for Engineers - Introduction and Overview</b>	Analysis II VL 2		<b>Mechanics III (Dynamics)</b>				Heat Transfer VL 3			
29	Computer Science for Engineers - Introduction and Overview VL 3	Analysis II HÜ 1		Mechanics III VL 3				Heat Transfer HÜ 2			
30	Computer Science for Engineers - Introduction and Overview GÜ 2	Analysis II GÜ 1		Mechanics III GÜ 2							
31				Mechanics III HÜ 1							
32											
33											

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.

