

# Course of Study Mechanical Engineering (Study Cohort w17)

Sample course plan B Bachelor Mechanical Engineering (MBBS)

Specialisation: Materials in Engineering Sciences

		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>		<b>Foundations of Management</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 HÜ 2					
4	<b>Computer Science for Mechanical Engineers</b>	<b>Fundamentals of Materials Science (part 2)</b>		<b>Mechanical Engineering: Design (part 1)</b>		<b>Mechanical Engineering: Design (part 2)</b>					
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	<b>Fundamentals of Mechanical Engineering Design</b>	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 VL 2								
8			Fundamentals of Mechanical Engineering Design HÜ 2								
9											
10	<b>Mathematics I</b>			<b>Basics of Electrical Engineering</b>		<b>Fluid Dynamics</b>		<b>Introduction to Control Systems</b>		<b>Structural Materials (part 2)</b>	
11	Linear Algebra I VL 2			Basics of Electrical Engineering VL 3	Fluid Mechanics VL 3	Introduction to Control Systems VL 2	Fundamentals of Mechanical Properties of Materials VL 2				
12	Linear Algebra I GÜ 1			Basics of Electrical Engineering GÜ 2	Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2					
13	Linear Algebra I HÜ 1										
14	Analysis I VL 2	<b>Technical Thermodynamics I</b> VL 2									
15	Analysis I GÜ 1	Technical Thermodynamics I HÜ 1									
16	Analysis I HÜ 1	Technical Thermodynamics I GÜ 1									
17											
18	<b>Mechanics I (Statics)</b>	<b>Mechanics II: Mechanics of Materials</b>		<b>Technical Thermodynamics II</b>		<b>Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)</b>		<b>Measurement Technology for Mechanical and Process Engineers</b>			
19	Mechanics I VL 2	Mechanics II VL 2	Technical Thermodynamics II VL 2	Mechanics IV VL 3	Measurement Technology for Mechanical and Process Engineers VL 2						
20	Mechanics I GÜ 2	Mechanics II GÜ 2	Technical Thermodynamics II HÜ 1	Mechanics IV GÜ 2	Measurement Technology for Mechanical and Process Engineers HÜ 1						
21	Mechanics I HÜ 1	Mechanics II HÜ 2	Technical Thermodynamics II GÜ 1	Mechanics IV HÜ 1	Practical Course: Measurement and Control Systems PR 2						
22											
23											
24	<b>Fundamentals of Materials Science (part 1)</b>	<b>Mathematics II</b>		<b>Mathematics III</b>		<b>Fundamentals of Production and Quality Management</b>		<b>Structural Materials (part 1)</b>			
25	Fundamentals of Materials Science I VL 2	Linear Algebra II VL 2	Analysis III VL 2	Production Process Organization VL 2	Welding Technology VL 3						
26	Physical and Chemical Basics of Materials Science VL 2	Linear Algebra II GÜ 1	Analysis III GÜ 1	Quality Management VL 2							
27		Linear Algebra II HÜ 1	Analysis III HÜ 1								
28		Analysis II VL 2	Differential Equations 1 VL 2								
29	<b>Team Project MB</b>	Analysis II HÜ 1	Differential Equations 1 GÜ 1								
30	Team Project MB TT 6	Analysis II GÜ 1	Differential Equations 1 HÜ 1								
31											
32											
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.

