

# Course of Study Mechanical Engineering (Study Cohort w17)

Sample course plan A Bachelor Mechanical Engineering (MBBS)

Specialisation: Product Development and Production

		Semester 3		Semester 4		Semester 5		Semester 6	
		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 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		Mechanical Design Project I PBL 3	Mechanical Design Project II PBL 3					
7	Computer Science for Mechanical Engineers HÜ 1	<b>Fundamentals of Mechanical Engineering Design</b>		<b>Basics of Electrical Engineering</b>		<b>Fluid Dynamics</b>		<b>Introduction to Control Systems</b>	
8		Fundamentals of Mechanical Engineering Design VL 2	Basics of Electrical Engineering VL 3	Fluid Mechanics VL 3	Introduction to Control Systems VL 2	Integrated Product Development and Lightweight Design			
9		Fundamentals of Mechanical Engineering Design HÜ 2	Basics of Electrical Engineering GÜ 2	Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2	Integrated Product Development I VL 2			
10	<b>Mathematics I</b>					Development of Lightweight Design Products VL 2			
11	Linear Algebra I VL 2	<b>Technical Thermodynamics I</b>		<b>Technical Thermodynamics II</b>		CAE-Team Project PBL 2			
12	Linear Algebra I GÜ 1	Technical Thermodynamics I VL 2	Technical Thermodynamics II VL 2	Technical Thermodynamics II HÜ 1	<b>Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)</b>				
13	Linear Algebra I HÜ 1	Technical Thermodynamics I HÜ 1	Technical Thermodynamics II HÜ 1	Technical Thermodynamics II GÜ 1	Mechanics IV VL 3	<b>Measurement Technology for Mechanical and Process Engineers</b>			
14	Analysis I VL 2	Technical Thermodynamics I GÜ 1	Technical Thermodynamics II GÜ 1		Mechanics IV GÜ 2	Measurement Technology for Mechanical and Process Engineers VL 2			
15	Analysis I GÜ 1	Technical Thermodynamics I HÜ 1			Mechanics IV HÜ 1	Measurement Technology for Mechanical and Process Engineers HÜ 1			
16	Analysis I HÜ 1					Practical Course: Measurement and Control Systems PR 2			
17									
18	<b>Mechanics I (Statics)</b>	<b>Mechanics II: Mechanics of Materials</b>		<b>Mathematics III</b>		<b>Electrical Machines</b>		<b>Production Technology</b>	
19	Mechanics I VL 2	Mechanics II VL 2	Analysis III VL 2	Electrical Machines VL 3	Forming and Cutting Technology VL 2				
20	Mechanics I GÜ 2	Mechanics II GÜ 2	Analysis III GÜ 1	Electrical Machines HÜ 2	Forming and Cutting Technology HÜ 1				
21	Mechanics I HÜ 1	Mechanics II HÜ 2	Analysis III HÜ 1		Fundamentals of Machine Tools VL 2				
22			Differential Equations 1 VL 2		Fundamentals of Machine Tools HÜ 1				
23			Differential Equations 1 GÜ 1						
24			Differential Equations 1 HÜ 1						
24	<b>Fundamentals of Materials Science (part 1)</b>	<b>Mathematics II</b>		<b>Mechanics III (Hydrostatics, Kinematics, Kinetics I)</b>		<b>Material Science Laboratory</b>			
25	Fundamentals of Materials Science I VL 2	Linear Algebra II VL 2	Mechanics III VL 3	Material Science Laboratory VL 2					
26	Physical and Chemical Basics of Materials Science VL 2	Linear Algebra II GÜ 1	Mechanics III GÜ 2	Material Science Laboratory PR 4					
27		Linear Algebra II HÜ 1	Mechanics III HÜ 1						
28		Analysis II VL 2	Mechanics III GÜ 2						
29	<b>Team Project MB</b>	Analysis II HÜ 1	Mechanics III HÜ 1						
30	Team Project MB TT 6	Analysis II GÜ 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.

