

# Course of Study Mechanical Engineering (Study Cohort w17)

Sample course plan C Bachelor Mechanical Engineering (MBBS)

Specialisation: Theoretical Mechanical Engineering 2

	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	
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	Introduction to Management	VL 3	
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>		Management Tutorial		
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	HÜ 2		
6	Computer Science for Mechanical Engineers	GÜ 2	<b>Fundamentals of Mechanical Engineering Design</b>	Fundamentals of Mechanical Engineering Design	VL 2	Mechanical Design Project I	PBL 3	Mechanical Design Project II	PBL 3	HÜ 2	
7	Computer Science for Mechanical Engineers	HÜ 1		Fundamentals of Mechanical Engineering Design	HÜ 2	<b>Basics of Electrical Engineering</b>		<b>Fluid Dynamics</b>		<b>Introduction to Control Systems</b>	
8						Basics of Electrical Engineering	VL 3	Fluid Mechanics	VL 3	Introduction to Control Systems	VL 2
9						Basics of Electrical Engineering	GÜ 2	Fluid Mechanics	HÜ 2	Introduction to Control Systems	GÜ 2
10	<b>Mathematics I</b>		<b>Technical Thermodynamics I</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>		
11	Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2	Technical Thermodynamics II	VL 2	Mechanics IV	VL 3	Measurement Technology for Mechanical and Process Engineers	VL 2	
12	Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1	Technical Thermodynamics II	HÜ 1	Mechanics IV	GÜ 2	Measurement Technology for Mechanical and Process Engineers	HÜ 1	
13	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1	Technical Thermodynamics II	GÜ 1	Mechanics IV	HÜ 1	Measurement Technology for Mechanical and Process Engineers	PR 2	
14	Analysis I	VL 2							Practical Course: Measurement and Control Systems		
15	Analysis I	GÜ 1									
16	Analysis I	HÜ 1									
17											
18	<b>Mechanics I (Statics)</b>		<b>Mechanics II: Mechanics of Materials</b>		<b>Mathematics III</b>		<b>Advanced Materials</b>		<b>Simulation and Design of Mechatronic Systems</b>		
19	Mechanics I	VL 2	Mechanics II	VL 2	Analysis III	VL 2	Advanced Materials Characterization	VL 2	Simulation and Design of Mechatronic Systems	VL 2	
20	Mechanics I	GÜ 2	Mechanics II	GÜ 2	Analysis III	GÜ 1	Advanced Materials Design	VL 2	Simulation and Design of Mechatronic Systems	HÜ 1	
21	Mechanics I	HÜ 1	Mechanics II	HÜ 2	Analysis III	HÜ 1	Advanced Materials Design	HÜ 2	Simulation and Design of Mechatronic Systems	PR 1	
22					Differential Equations 1	VL 2					
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>Heat Transfer</b>		
25	Fundamentals of Materials Science I	VL 2	Linear Algebra II	VL 2	Mechanics III	VL 3			Heat Transfer	VL 3	
26	Physical and Chemical Basics of Materials Science	VL 2	Linear Algebra II	GÜ 1	Mechanics III	GÜ 2			Heat Transfer	HÜ 2	
27			Linear Algebra II	HÜ 1	Mechanics III	HÜ 1					
28			Analysis II	VL 2							
29			Analysis II	HÜ 1							
30			Analysis II	GÜ 1							
31	<b>Team Project MB</b>										
32	Team Project MB	TT 6									
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.

