

# Course of Study Mechanical Engineering (Study Cohort w18)

Sample course plan C Bachelor Mechanical Engineering (MBBS)

Specialisation: Biomechanics		Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5	Form Hrs/wk	Semester 6	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 GÜ 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 3		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			<b>Fundamentals of Mechanical Engineering Design</b>									
8			Fundamentals of Mechanical Engineering Design VL 2									
9			Fundamentals of Mechanical Engineering Design HÜ 2									
10	<b>Mathematics I</b>				<b>Basics of Electrical Engineering</b>		<b>Fluid Dynamics</b>		<b>Introduction to Control Systems</b>		<b>MED II: Introduction to Physiology</b>	
11	Linear Algebra I VL 2				Basics of Electrical Engineering VL 3		Fluid Mechanics VL 3		Introduction to Control Systems VL 2		Introduction to Physiology 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>									
15	Analysis I GÜ 1		Technical Thermodynamics I HÜ 1		<b>Technical Thermodynamics II</b>		<b>Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)</b>		<b>Measurement Technology for Mechanical Engineers</b>		<b>Bachelor Thesis</b>	
16	Analysis I HÜ 1		Technical Thermodynamics I GÜ 1		Technical Thermodynamics II VL 2		Mechanics IV VL 3		Measurement Technology for Mechanical Engineering VL 2			
17					Technical Thermodynamics II HÜ 1		Mechanics IV GÜ 2		Measurement Technology for Mechanical Engineering HÜ 1			
18					Technical Thermodynamics II GÜ 1		Mechanics IV HÜ 1		Measurement Technology for Mechanical Engineering PR 2			
19	<b>Mechanics I (Statics)</b>		<b>Mechanics II: Mechanics of Materials</b>						Practical Course: Measurement and Control Systems			
20	Mechanics I VL 2		Mechanics II VL 2		<b>Mathematics III</b>		<b>MED I: Introduction to Anatomy</b>		<b>MED II: Introduction to Biochemistry and Molecular Biology</b>			
21	Mechanics I GÜ 2		Mechanics II GÜ 2		Analysis III VL 2		Introduction to Anatomy VL 2		Introduction to Biochemistry and Molecular Biology VL 2			
22	Mechanics I HÜ 1		Mechanics II HÜ 2		Analysis III GÜ 1				Introduction to Biochemistry and Molecular Biology			
23					Analysis III HÜ 1		<b>MED I: Introduction to Radiology and Radiation Therapy</b>		<b>BIO I: Implants and Fracture Healing</b>			
24					Differential Equations 1 VL 2		Introduction to Radiology and Radiation Therapy VL 2		Implants and Fracture Healing VL 2			
25	<b>Fundamentals of Materials Science (part 1)</b>		<b>Mathematics II</b>		Differential Equations 1 GÜ 1							
26	Fundamentals of Materials Science I VL 2		Linear Algebra II VL 2		Differential Equations 1 HÜ 1		<b>Advanced Materials</b>					
27	Physical and Chemical Basics of Materials Science VL 2		Linear Algebra II GÜ 1				Advanced Materials Characterization VL 2					
28			Linear Algebra II HÜ 1				Advanced Materials Design VL 2					
29			Analysis II VL 2				Advanced Materials Design HÜ 2					
30			Analysis II HÜ 1		<b>Mechanics III (Hydrostatics, Kinematics, Kinetics I)</b>							
31	<b>Team Project MB</b>		Analysis II GÜ 1		Mechanics III VL 3							
32	Team Project MB PBL 6				Mechanics III GÜ 2							
33					Mechanics III HÜ 1							

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.

