

Course of Study Mechanical Engineering (Study Cohort w21)

Sample course plan B 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	Production Engineering (part 1)	Production Engineering (part 2)		Advanced Mechanical Engineering Design (part 1)		Advanced Mechanical Engineering Design (part 2)		Advanced Mechanical Design Project	
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	Mathematics I	Fundamentals of Materials Science (part 2)		Mechanical Engineering: Design (part 1)		Mechanical Engineering: Design (part 2)			
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	Fundamentals of Mechanical Engineering Design		Basics of Electrical Engineering		Fluid Dynamics		Introduction to Control Systems	
8	Analysis I VL 2	Fundamentals of Mechanical Engineering Design VL 2	Basics of Electrical Engineering VL 3	Basics of Electrical Engineering GÜ 2	Fluid Mechanics VL 3	Introduction to Control Systems VL 2			
9	Analysis I GÜ 1	Fundamentals of Mechanical Engineering Design HÜ 2			Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2			
10	Analysis I HÜ 1								
11									
12	Mechanics I (Statics)	Technical Thermodynamics I		Technical Thermodynamics II		Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)		Measurement Technology for Mechanical Engineers	
13	Mechanics I VL 2	Technical Thermodynamics I VL 2	Technical Thermodynamics II VL 2	Technical Thermodynamics II HÜ 1	Mechanics IV VL 3	Measurement Technology for Mechanical Engineering VL 2			
14	Mechanics I GÜ 2	Technical Thermodynamics I HÜ 1	Technical Thermodynamics II GÜ 1	Technical Thermodynamics II HÜ 1	Mechanics IV GÜ 2	Measurement Technology for Mechanical Engineering HÜ 1			
15	Mechanics I HÜ 1	Technical Thermodynamics I GÜ 1			Mechanics IV HÜ 1	Measurement Technology for Mechanical Engineering PR 2			
16						Practical Course: Measurement and Control Systems			
17									
18	Fundamentals of Materials Science (part 1)	Mechanics II: Mechanics of Materials		Mathematics III		Fundamentals of Production and Quality Management		Production Technology	
19	Fundamentals of Materials Science I VL 2	Mechanics II VL 2	Analysis III VL 2	Production Process Organization VL 2	Forming and Cutting Technology VL 2				
20	Physical and Chemical Basics of Materials Science VL 2	Mechanics II GÜ 2	Analysis III GÜ 1	Quality Management VL 2	Forming and Cutting Technology HÜ 1				
21		Mechanics II HÜ 2	Analysis III HÜ 1		Fundamentals of Machine Tools VL 2				
22	Team Project MB		Differential Equations 1 VL 2		Fundamentals of Machine Tools HÜ 1				
23	Team Project MB PBL 6		Differential Equations 1 GÜ 1						
24			Differential Equations 1 HÜ 1						
25		Mathematics II							
26		Linear Algebra II VL 2							
27		Linear Algebra II GÜ 1							
28		Linear Algebra II HÜ 1							
29	Computer Science for Engineers - Introduction and Overview	Analysis II VL 2							
30	Computer Science for Engineers - Introduction and Overview VL 3	Analysis II HÜ 1							
31	Computer Science for Engineers - Introduction and Overview GÜ 2	Analysis II GÜ 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.

