

Course of Study Mechanical Engineering (Study Cohort w18)

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	Production Engineering (part 1)	Production Engineering (part 2)		Advanced Mechanical Engineering Design (part 1)		Advanced Mechanical Engineering Design (part 2)		Advanced Mechanical Design Project		Foundations of Management	
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	Computer Science for Mechanical Engineers	Fundamentals of Materials Science (part 2)		Mechanical Engineering: Design (part 1)		Mechanical Engineering: Design (part 2)					
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		Fundamentals of Mechanical Engineering Design		Basics of Electrical Engineering		Fluid Dynamics		Introduction to Control Systems		Mathematics IV	
8		Fundamentals of Mechanical Engineering Design VL 2	Basics of Electrical Engineering VL 3	Fluid Mechanics VL 3	Introduction to Control Systems VL 2	Complex Functions VL 2					
9		Fundamentals of Mechanical Engineering Design HÜ 2	Basics of Electrical Engineering GÜ 2	Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2	Complex Functions GÜ 1					
10	Mathematics I					Complex Functions HÜ 1					
11	Linear Algebra I VL 2					Differential Equations 2 VL 2					
12	Linear Algebra I GÜ 1					Differential Equations 2 GÜ 1					
13	Linear Algebra I HÜ 1	Technical Thermodynamics I		Technical Thermodynamics II		Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		Measurement Technology for Mechanical Engineers		Bachelor Thesis	
14	Analysis I VL 2	Technical Thermodynamics I VL 2	Technical Thermodynamics II VL 2	Mechanics IV VL 3	Measurement Technology for Mechanical Engineering VL 2						
15	Analysis I GÜ 1	Technical Thermodynamics I HÜ 1	Technical Thermodynamics II HÜ 1	Mechanics IV GÜ 2	Engineering HÜ 1						
16	Analysis I HÜ 1	Technical Thermodynamics I GÜ 1	Technical Thermodynamics II GÜ 1	Mechanics IV HÜ 1	Measurement Technology for Mechanical Engineering HÜ 1						
17					Engineering PR 2						
18	Mechanics I (Statics)	Mechanics II: Mechanics of Materials		Mathematics III		Advanced Materials		Simulation and Design of Mechatronic Systems			
19	Mechanics I VL 2	Mechanics II 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	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	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	Fundamentals of Materials Science (part 1)	Mathematics II		Mechanics III (Hydrostatics, Kinematics, Kinetics I)				Heat Transfer			
25	Fundamentals of Materials Science I VL 2	Linear Algebra II 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	Linear Algebra II GÜ 1	Mechanics III GÜ 2				Heat Transfer HÜ 2			
27		Linear Algebra II HÜ 1	Linear Algebra II HÜ 1	Mechanics III HÜ 1							
28		Analysis II VL 2	Analysis II VL 2								
29	Team Project MB	Analysis II HÜ 1	Analysis II HÜ 1								
30	Team Project MB PBL 6	Analysis II GÜ 1	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.

