

Course of Study Mechanical Engineering (Study Cohort w17)

Sample course plan A Bachelor Mechanical Engineering (MBBS)

Specialisation: Theoretical Mechanical Engineering 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 HÜ 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 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	Fundamentals of Mechanical Engineering Design							
8		Fundamentals of Mechanical Engineering Design VL 2	Basics of Electrical Engineering	Fluid Dynamics	Introduction to Control Systems	Mathematics IV			
9		Fundamentals of Mechanical Engineering Design HÜ 2	Basics of Electrical Engineering VL 3	Fluid Mechanics VL 3	Introduction to Control Systems VL 2	Complex Functions VL 2			
10	Mathematics I		Basics of Electrical Engineering GÜ 2	Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2	Complex Functions HÜ 1			
11	Linear Algebra I VL 2					Differential Equations 2 VL 2			
12	Linear Algebra I GÜ 1	Technical Thermodynamics I				Differential Equations 2 GÜ 1			
13	Linear Algebra I HÜ 1	Technical Thermodynamics I VL 2	Technical Thermodynamics II	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)	Measurement Technology for Mechanical and Process Engineers	Differential Equations 2 HÜ 1			
14	Analysis I VL 2	Technical Thermodynamics I HÜ 1	Technical Thermodynamics II VL 2	Mechanics IV VL 3	Measurement Technology for Mechanical and Process Engineers VL 2				
15	Analysis I GÜ 1	Technical Thermodynamics I GÜ 1	Technical Thermodynamics II HÜ 1	Mechanics IV GÜ 2	Measurement Technology for Mechanical and Process Engineers HÜ 1				
16	Analysis I HÜ 1		Technical Thermodynamics II GÜ 1	Mechanics IV HÜ 1	Practical Course: Measurement and Control Systems PR 2				
17									
18	Mechanics I (Statics)	Mechanics II: Mechanics of Materials							
19	Mechanics I VL 2	Mechanics II VL 2	Mathematics III	Electrical Machines	Simulation and Design of Mechatronic Systems				
20	Mechanics I GÜ 2	Mechanics II GÜ 2	Analysis III VL 2	Electrical Machines VL 3	Simulation and Design of Mechatronic Systems VL 2				
21	Mechanics I HÜ 1	Mechanics II HÜ 2	Analysis III GÜ 1	Electrical Machines HÜ 2	Simulation and Design of Mechatronic Systems HÜ 1				
22			Analysis III HÜ 1		Simulation and Design of Mechatronic Systems PR 1				
23			Differential Equations 1 VL 2						
24	Fundamentals of Materials Science (part 1)	Mathematics II	Differential Equations 1 GÜ 1						
25	Fundamentals of Materials Science I VL 2	Linear Algebra II VL 2	Differential Equations 1 HÜ 1						
26	Physical and Chemical Basics of Materials Science VL 2	Linear Algebra II GÜ 1							
27		Linear Algebra II HÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I)						
28		Analysis II VL 2	Mechanics III VL 3						
29	Team Project MB	Analysis II HÜ 1	Mechanics III GÜ 2						
30	Team Project MB TT 6	Analysis II GÜ 1	Mechanics III HÜ 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.

