

Course of Study Mechanical Engineering (Study Cohort w17)

Sample course plan A Bachelor Mechanical Engineering (MBBS)

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

