

Course of Study Mechanical Engineering (Study Cohort w18)

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

