

Course of Study Mechanical Engineering (Study Cohort w21)

Sample course plan A Bachelor Mechanical Engineering (MBBS)

Specialisation: Theoretical Mechanical Engineering

		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			
2	Production Engineering I	VL	2	Production Engineering II	VL	2	Advanced Mechanical Engineering Design I	VL	2	Advanced Mechanical Design Project	PBL	4	
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	
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									
8	Analysis I	VL	2	Fundamentals of Mechanical Engineering Design	VL	2	Basics of Electrical Engineering		Fluid Dynamics		Introduction to Control Systems		
9	Analysis I	GÜ	1	Fundamentals of Mechanical Engineering Design	HÜ	2	Basics of Electrical Engineering	VL	3	Fluid Mechanics	VL	3	
10	Analysis I	HÜ	1				Basics of Electrical Engineering	GÜ	2	Fluid Mechanics	HÜ	2	
11													
12	Mechanics I (Statics)			Technical Thermodynamics I									
13	Mechanics I	VL	2	Technical Thermodynamics I	VL	2	Technical Thermodynamics II		Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)		Measurement Technology for Mechanical Engineers		
14	Mechanics I	GÜ	2	Technical Thermodynamics I	HÜ	1	Technical Thermodynamics II	VL	2	Technical Thermodynamics II	HÜ	1	Measurement Technology for Mechanical Engineering
15	Mechanics I	HÜ	1	Technical Thermodynamics I	GÜ	1	Technical Thermodynamics II	HÜ	1	Mechanics IV	VL	3	Measurement Technology for Mechanical Engineering
16							Technical Thermodynamics II	GÜ	1	Mechanics IV	GÜ	2	Measurement Technology for Mechanical Engineering
17										Mechanics IV	HÜ	1	Practical Course: Measurement and Control Systems
18	Fundamentals of Materials Science (part 1)			Mechanics II: Mechanics of Materials									
19	Fundamentals of Materials Science I	VL	2	Mechanics II	VL	2	Mathematics III		Electrical Machines and Actuators		Numerical Mathematics I		
20	Physical and Chemical Basics of Materials Science	VL	2	Mechanics II	GÜ	2	Analysis III	VL	2	Electrical Machines and Actuators	VL	3	Numerical Mathematics I
21				Mechanics II	HÜ	2	Analysis III	GÜ	1	Electrical Machines and Actuators	HÜ	2	Numerical Mathematics I
22	Team Project MB												
23	Team Project MB	PBL	6				Analysis III	HÜ	1				
24				Mathematics II									
25				Linear Algebra II	VL	2	Differential Equations 1	VL	2				
26				Linear Algebra II	GÜ	1	Differential Equations 1	GÜ	1				
27				Linear Algebra II	HÜ	1	Differential Equations 1	HÜ	1				
28	Computer Science for Engineers - Introduction and Overview			Analysis II	VL	2	Mechanics III (Dynamics)						
29	Computer Science for Engineers - Introduction and Overview	VL	3	Analysis II	HÜ	1	Mechanics III	VL	3				
30	Computer Science for Engineers - Introduction and Overview	GÜ	2	Analysis II	GÜ	1	Mechanics III	GÜ	2				
31							Mechanics III	HÜ	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.

