

Course of Study Mechanical Engineering (Study Cohort w18)

Sample course plan B Bachelor Mechanical Engineering (MBBS)

Specialisation: Biomechanics		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		MED II: Introduction to Physiology	
11	Linear Algebra I VL 2			Basics of Electrical Engineering VL 3		Fluid Mechanics VL 3		Introduction to Control Systems VL 2		Introduction to Physiology VL 2	
12	Linear Algebra I GÜ 1			Basics of Electrical Engineering GÜ 2		Fluid Mechanics HÜ 2		Introduction to Control Systems GÜ 2			
13	Linear Algebra I HÜ 1										
14	Analysis I VL 2	Technical Thermodynamics I									
15	Analysis I GÜ 1	Technical Thermodynamics I VL 2									
16	Analysis I HÜ 1										
17											
18	Mechanics I (Statics)	Mechanics II: Mechanics of Materials		Technical Thermodynamics II		Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		Measurement Technology for Mechanical Engineers		Bachelor Thesis	
19	Mechanics I VL 2	Mechanics II VL 2		Technical Thermodynamics II VL 2		Mechanics IV VL 3		Measurement Technology for Mechanical Engineering VL 2			
20	Mechanics I GÜ 2	Mechanics II GÜ 2		Technical Thermodynamics II HÜ 1		Mechanics IV GÜ 2		Measurement Technology for Mechanical Engineering HÜ 1			
21	Mechanics I HÜ 1	Mechanics II HÜ 2		Technical Thermodynamics II GÜ 1		Mechanics IV HÜ 1		Measurement Technology for Mechanical Engineering PR 2			
22								Practical Course: Measurement and Control Systems			
23											
24	Fundamentals of Materials Science (part 1)	Mathematics II		Mathematics III		MED I: Introduction to Anatomy		MED II: Introduction to Biochemistry and Molecular Biology		BIO I: Implants and Fracture Healing	
25	Fundamentals of Materials Science I VL 2	Linear Algebra II VL 2		Analysis III VL 2		Introduction to Anatomy VL 2		Introduction to Biochemistry and Molecular Biology VL 2		Implants and Fracture Healing VL 2	
26	Physical and Chemical Basics of Materials Science VL 2	Linear Algebra II GÜ 1		Analysis III GÜ 1							
27		Linear Algebra II HÜ 1		Analysis III HÜ 1							
28		Analysis II VL 2		Differential Equations 1 VL 2		MED I: Introduction to Radiology and Radiation Therapy					
29	Team Project MB	Analysis II HÜ 1		Differential Equations 1 GÜ 1		Introduction to Radiology and Radiation Therapy VL 2					
30	Team Project MB PBL 6	Analysis II GÜ 1		Differential Equations 1 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.

