

Course of Study Mechanical Engineering (Study Cohort w18)

Sample course plan A Bachelor Mechanical Engineering (MBBS)

Specialisation: Biomechanics		Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Week	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	Basics of Electrical Engineering	Fluid Dynamics	Introduction to Control Systems	MED II: Introduction to Physiology
9		Fundamentals of Mechanical Engineering Design HÜ 2	Basics of Electrical Engineering VL 3	Fluid Mechanics VL 3	Introduction to Control Systems VL 2	Introduction to Physiology VL 2
10			Basics of Electrical Engineering GÜ 2	Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2	
11	Mathematics I					BIO I: Experimental Methods in Biomechanics
12	Linear Algebra I VL 2					Experimental Methods in Biomechanics VL 2
13	Linear Algebra I GÜ 1	Technical Thermodynamics I	Technical Thermodynamics II	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)	Measurement Technology for Mechanical Engineers	Bachelor Thesis
14	Linear Algebra I HÜ 1	Technical Thermodynamics I VL 2	Technical Thermodynamics II VL 2	Mechanics IV VL 3	Measurement Technology for Mechanical Engineering VL 2	
15	Analysis I VL 2	Technical Thermodynamics I HÜ 1	Technical Thermodynamics II HÜ 1	Mechanics IV GÜ 2	Measurement Technology for Mechanical Engineering HÜ 1	
16	Analysis I GÜ 1	Technical Thermodynamics I GÜ 1	Technical Thermodynamics II GÜ 1	Mechanics IV HÜ 1	Measurement Technology for Mechanical Engineering HÜ 1	
17	Analysis I HÜ 1				Practical Course: Measurement and Control Systems PR 2	
18	Mechanics I (Statics)	Mechanics II: Mechanics of Materials				
19	Mechanics I VL 2	Mechanics II VL 2	Mathematics III	MED I: Introduction to Anatomy	MED II: Introduction to Biochemistry and Molecular Biology	
20	Mechanics I GÜ 2	Mechanics II GÜ 2	Analysis III VL 2	Introduction to Anatomy VL 2	Introduction to Biochemistry and Molecular Biology VL 2	
21	Mechanics I HÜ 1	Mechanics II HÜ 2	Analysis III GÜ 1		Biography	
22			Analysis III HÜ 1	MED I: Introduction to Radiology and Radiation Therapy	BIO I: Implants and Fracture Healing	
23			Differential Equations 1 VL 2	Introduction to Radiology and Radiation Therapy VL 2	Implants and Fracture Healing 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	Electrical Machines and Actuators		
26	Physical and Chemical Basics of Materials Science VL 2	Linear Algebra II GÜ 1		Electrical Machines and Actuators VL 3		
27		Linear Algebra II HÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I)	Electrical Machines and Actuators HÜ 2		
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 PBL 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.

