

Course of Study Mechanical Engineering (Study Cohort w21)

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
2	VL 2	Production Engineering I	Production Engineering II	Advanced Mechanical Engineering Design I	Advanced Mechanical Engineering Design II	Advanced Mechanical Design Project
3	HÜ 1	Production Engineering I	Production Engineering II	Advanced Mechanical Engineering Design I	Advanced Mechanical Engineering Design II	PBL 4
4		Mathematics I	Fundamentals of Materials Science (part 2)	Mechanical Engineering: Design (part 1)	Mechanical Engineering: Design (part 2)	Foundations of Management
5	VL 2	Linear Algebra I	Fundamentals of Materials Science II	Embodiment Design and 3D-CAD	Team Project Design Methodology	Introduction to Management
6	GÜ 1	Linear Algebra I		Mechanical Design Project I	Mechanical Design Project II	Management Tutorial
7	HÜ 1	Linear Algebra I	Fundamentals of Mechanical Engineering Design			
8	VL 2	Analysis I	Fundamentals of Mechanical Engineering Design	Basics of Electrical Engineering	Fluid Dynamics	MED II: Introduction to Physiology
9	GÜ 1	Analysis I	Fundamentals of Mechanical Engineering Design	Basics of Electrical Engineering	Fluid Mechanics	Introduction to Physiology
10	HÜ 1	Analysis I		Basics of Electrical Engineering	Fluid Mechanics	Introduction to Physiology
11						BIO I: Experimental Methods in Biomechanics
12		Mechanics I (Statics)	Technical Thermodynamics I	Technical Thermodynamics II	Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)	Measurement Technology for Mechanical Engineers
13	VL 2	Mechanics I	Technical Thermodynamics I	Technical Thermodynamics II	Mechanics IV	Measurement Technology for Mechanical Engineering
14	GÜ 2	Mechanics I	Technical Thermodynamics I	Technical Thermodynamics II	Mechanics IV	Measurement Technology for Mechanical Engineering
15	HÜ 1	Mechanics I	Technical Thermodynamics I	Technical Thermodynamics II	Mechanics IV	Measurement Technology for Mechanical Engineering
16						Practical Course: Measurement and Control Systems
17						PR 2
18		Fundamentals of Materials Science (part 1)	Mechanics II: Mechanics of Materials	Mathematics III	MED I: Introduction to Anatomy	MED II: Introduction to Biochemistry and Molecular Biology
19	VL 2	Fundamentals of Materials Science I	Mechanics II	Analysis III	Introduction to Anatomy	Introduction to Biochemistry and Molecular Biology
20	VL 2	Physical and Chemical Basics of Materials Science	Mechanics II	Analysis III		Introduction to Biochemistry and Molecular Biology
21			Mechanics II	Analysis III		
22		Team Project MB		Differential Equations 1	MED I: Introduction to Radiology and Radiation Therapy	BIO I: Implants and Fracture Healing
23	PBL 6	Team Project MB		Differential Equations 1	Introduction to Radiology and Radiation Therapy	Implants and Fracture Healing
24			Mathematics II			
25			Linear Algebra II		Electrical Machines and Actuators	
26			Linear Algebra II		Electrical Machines and Actuators	
27			Linear Algebra II		Electrical Machines and Actuators	
28			Analysis II	Mechanics III (Dynamics)		
29		Computer Science for Engineers - Introduction and Overview	Analysis II	Mechanics III		
30	VL 3	Computer Science for Engineers - Introduction and Overview	Analysis II	Mechanics III		
31	GÜ 2	Computer Science for Engineers - Introduction and Overview	Analysis II	Mechanics III		
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.

