

Course of Study Mechanical Engineering (Study Cohort w22)

Sample course plan C Bachelor Mechanical Engineering (MBBS)

Specialisation Materials in Engineering Sciences

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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	Mathematics I		Fundamentals of Materials Science (part 2)		Mechanical Engineering: Design (part 1)		Mechanical Engineering: Design (part 2)																						
5	Mathematics I	VL 4	Fundamentals of Materials Science II	VL 2	Embodiment Design and 3D-CAD Introduction and Practical Training	VL 2	Team Project Design Methodology	PBL 2																					
6	Mathematics I	HÜ 2	Fundamentals of Mechanical Engineering Design	Fundamentals of Mechanical Engineering Design VL 2	Mechanical Design Project I	PBL 3	Mechanical Design Project II	PBL 3																					
7	Mathematics I	GÜ 2											Basics of Electrical Engineering	Basics of Electrical Engineering VL 3	Basics of Electrical Engineering GÜ 2	Fluid Dynamics	Fluid Mechanics VL 3	Fluid Mechanics HÜ 2	Introduction to Control Systems	Introduction to Control Systems VL 2	Introduction to Control Systems GÜ 2	Enhanced Fundamentals of Materials Science	Materials for Energy Storage and Conversion VL 2	Advanced Ceramics and Polymers VL 2	Advanced Ceramics and Polymers HÜ 1				
8			Fundamentals of Mechanical Engineering Design HÜ 2																										
9																													
10																													
11																													
12	Fundamentals of Materials Science (part 1)		Technical Thermodynamics I		Technical Thermodynamics II		Computational Mechanics		Measurement Technology for Mechanical Engineers		Materials Engineering: Materials Selection, Processing and Modelling																		
13	Fundamentals of Materials Science I	VL 2	Technical Thermodynamics I	VL 2									Technical Thermodynamics II	VL 2	Computational Multibody Dynamics	IV 2	Measurement Technology for Mechanical Engineering	VL 2	Materials Selection and Processing	VL 3									
14	Physical and Chemical Basics of Materials Science	VL 2	Technical Thermodynamics I	HÜ 1									Technical Thermodynamics II	HÜ 1	Computational Mechanics	GÜ 2	Measurement Technology for Mechanical Engineering	PR 2	Materials and Process Modeling	VL 3									
15			Technical Thermodynamics I	GÜ 1									Technical Thermodynamics II	GÜ 1	Computational Structural Mechanics	IV 2	Measurement Technology for Mechanical Engineering	PR 2											
16	Team Project MB		Mathematics II		Mathematics III		Advanced Materials for Sustainability		Materials Science Laboratory		Bachelor Thesis																		
17	Team Project MB	PBL 6											Mathematics II	VL 4	Analysis III	VL 2	Advanced Materials Characterization	VL 2	Companion Lecture for Materials Science	VL 2									
18													Mathematics II	HÜ 2	Analysis III	GÜ 1	Advanced Materials for Sustainability	VL 2	Laboratory										
19													Mathematics II	GÜ 2	Analysis III	HÜ 1	Advanced Materials for Sustainability	HÜ 2	Material Science Laboratory	PR 4									
20																													
21																													
22	Computer Science for Engineers - Introduction and Overview		Engineering Mechanics II (Elastostatics)		Engineering Mechanics III (Dynamics)																								
23	Computer Science for Engineers - Introduction	VL 3											Engineering Mechanics II	VL 2	Engineering Mechanics III	VL 3													
24	and Overview												Engineering Mechanics II	GÜ 2	Engineering Mechanics III	GÜ 2													
25	Computer Science for Engineers - Introduction and Overview	GÜ 2											Engineering Mechanics II	HÜ 2	Engineering Mechanics III	HÜ 1													
26																													
27																													
28	Engineering Mechanics I (Stereostatics)																												
29	Engineering Mechanics I	VL 2											Engineering Mechanics I	VL 2	Engineering Mechanics I	VL 2													
30	Engineering Mechanics I	GÜ 2											Engineering Mechanics I	GÜ 2	Engineering Mechanics I	GÜ 2													
31	Engineering Mechanics I	HÜ 1											Engineering Mechanics I	HÜ 1	Engineering Mechanics I	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.

