

Course of Study Mechanical Engineering (Study Cohort w23)

Sample course plan C Bachelor Mechanical Engineering (MBBS) Dual study program

Specialisation Product Development and Production

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1	Mathematics I			Fundamentals of Mechanical Engineering Design			Advanced Mechanical Engineering Design (part 1)			Advanced Mechanical Engineering Design (part 2)			Advanced Mechanical Design Project			Foundations of Management		
2	Mathematics I VL 4			Fundamentals of Mechanical Engineering Design 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	Mathematics I HÜ 2			Fundamentals of Mechanical Engineering Design HÜ 2			Advanced Mechanical Engineering Design I HÜ 2			Advanced Mechanical Engineering Design II HÜ 2						Management Tutorial GÜ 2		
4																		
5							Mechanical Engineering: Design (part 1)			Mechanical Engineering: Design (part 2)								
6							Embodiment Design and 3D-CAD Introduction and Practical Training VL 2			Team Project Design Methodology PBL 2								
7							Mechanical Design Project I PBL 3			Mechanical Design Project II PBL 3								
8																		
9	Fundamentals of Materials Science						Basics of Electrical Engineering			Fluid Dynamics			Introduction to Control Systems			Digital Product Development and Lightweight Design		
10	Fundamentals of Materials Science II VL 2						Basics of Electrical Engineering VL 3			Fluid Mechanics VL 3			Introduction to Control Systems VL 2			Digital Product Development VL 2		
11	Fundamentals of Materials Science I VL 2						Basics of Electrical Engineering GÜ 2			Fluid Mechanics HÜ 2			Introduction to Control Systems GÜ 2			Development of Lightweight Design Products VL 2		
12	Physical and Chemical Basics of Materials Science VL 2															CAE-Team Project PBL 2		
13																		
14																		
15	Team Project MB						Technical Thermodynamics II			Practical module 4 (dual study program, Bachelor's degree)			Measurement Technology for Mechanical Engineers			Bachelor thesis (dual study program)		
16	Team Project MB PBL 6						Technical Thermodynamics II VL 2			Practical term 4 0			Measurement Technology for Mechanical VL 2					
17							Technical Thermodynamics II HÜ 1						Engineering					
18							Technical Thermodynamics II GÜ 1						Measurement Technology for Mechanical PR 2					
19													Practical Course: Measurement and Control PR 2					
20													Systems					
21	Computer Science for Engineers - Introduction and Overview						Mathematics III			Computational Mechanics			Practical module 5 (dual study program, Bachelor's degree)					
22	Computer Science for Engineers - Introduction VL 3						Analysis III VL 2			Computational Multibody Dynamics IV 2			Practical term 5 0					
23	and Overview						Analysis III GÜ 1			Computational Mechanics GÜ 2								
24	Computer Science for Engineers - Introduction and Overview GÜ 2						Analysis III HÜ 1			Computational Structural Mechanics IV 2								
25							Differential Equations 1 VL 2											
26							Differential Equations 1 GÜ 1											
27							Differential Equations 1 HÜ 1											
28	Practical module 1 (dual study program, Bachelor's degree)						Practical module 2 (dual study program, Bachelor's degree)			Practical module 3 (dual study program, Bachelor's degree)								
29	Practical term 1 0						Practical term 2 0			Practical term 3 0								
30																		
31																		
32																		
33	Engineering Mechanics I (Stereostatics)						Engineering Mechanics II (Elastostatics)			Engineering Mechanics III (Dynamics)								
34	Engineering Mechanics I VL 2						Engineering Mechanics II VL 2			Engineering Mechanics III VL 3								
35	Engineering Mechanics I GÜ 2						Engineering Mechanics II GÜ 2			Engineering Mechanics III GÜ 2								
36	Engineering Mechanics I HÜ 1						Engineering Mechanics II HÜ 2			Engineering Mechanics III HÜ 1								
37																		
38																		
Linking theory and practice (dual study program, Bachelor's degree) (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.

