

Course of Study Mechanical Engineering (Study Cohort w23)

Sample course plan A Bachelor Mechanical Engineering (MBBS)

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							Mechanical Engineering: Design (part 1)			Mechanical Engineering: Design (part 2)																				
5							Embodiment Design and 3D-CAD Introduction	VL	2	Team Project Design Methodology	PBL	2																		
6										Mechanical Design Project II	PBL	3																		
6							Mechanical Design Project I	PBL	3																					
7				Technical Thermodynamics I			Basics of Electrical Engineering			Fluid Dynamics			Introduction to Control Systems			Digital Product Development and Lightweight Design														
8				Technical Thermodynamics I	VL	2	Basics of Electrical Engineering	VL	3	Fluid Mechanics	VL	3	Introduction to Control Systems	VL	2	Digital Product Development	VL	2												
9				Technical Thermodynamics I	HÜ	1	Basics of Electrical Engineering	GÜ	2	Fluid Mechanics	HÜ	2	Introduction to Control Systems	GÜ	2	Development of Lightweight Design Products	VL	2												
9				Technical Thermodynamics I	GÜ	1										CAE-Team Project	PBL	2												
10	Fundamentals of Materials Science																													
10	Fundamentals of Materials Science II	VL	2																											
11	Fundamentals of Materials Science I	VL	2																											
11	Physical and Chemical Basics of Materials Science	VL	2																											
12																														
13																			Production Engineering			Technical Thermodynamics II			Computational Mechanics			Measurement Technology for Mechanical Engineers		
14																			Production Engineering I	VL	2	Technical Thermodynamics II	VL	2	Computational Multibody Dynamics	IV	2	Measurement Technology for Mechanical Engineering	VL	2
14																			Production Engineering II	VL	2	Technical Thermodynamics II	HÜ	1	Computational Mechanics	GÜ	2	Engineering		
15	Team Project MB			Production Engineering II	HÜ	1	Technical Thermodynamics II	GÜ	1	Computational Structural Mechanics	IV	2	Measurement Technology for Mechanical Engineering	PR	2															
16	Team Project MB	PBL	6	Production Engineering I	HÜ	1						Practical Course: Measurement and Control Systems	PR	2																
17																														
18																			Mathematics II			Mathematics III			Electrical Machines and Actuators			Production Technology		
20																Mathematics II	VL	4	Analysis III	VL	2	Electrical Machines and Actuators	VL	3	Forming and Cutting Technology	VL	2			
20																Mathematics II	HÜ	2	Analysis III	GÜ	1	Electrical Machines and Actuators	HÜ	2	Forming and Cutting Technology	HÜ	1			
21	Computer Science for Engineers - Introduction and Overview			Mathematics II	GÜ	2	Analysis III	HÜ	1			Fundamentals of Machine Tools	VL	2																
22	Computer Science for Engineers - Introduction and Overview	VL	3				Differential Equations 1	VL	2			Fundamentals of Machine Tools	HÜ	1																
23	Computer Science for Engineers - Introduction and Overview						Differential Equations 1	GÜ	1																					
23	Computer Science for Engineers - Introduction and Overview	GÜ	2				Differential Equations 1	HÜ	1																					
24																														
25																			Engineering Mechanics I (Stereostatics)			Engineering Mechanics II (Elastostatics)			Engineering Mechanics III (Dynamics)					
27																			Engineering Mechanics I	VL	2	Engineering Mechanics II	VL	2	Engineering Mechanics III	VL	3			
28																			Engineering Mechanics I	GÜ	2	Engineering Mechanics II	GÜ	2	Engineering Mechanics III	GÜ	2			
29	Engineering Mechanics I	HÜ	1	Engineering Mechanics II	HÜ	2	Engineering Mechanics III	HÜ	1																					
30																														
31																														
32																														
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.

