

Course of Study Mechanical Engineering (Study Cohort w23)

Sample course plan A Bachelor Mechanical Engineering (MBBS)

Specialisation Materials in Engineering Sciences

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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 and Practical Training	VL	2	Team Project Design Methodology	PBL	2						
6							Mechanical Design Project I	PBL	3	Mechanical Design Project II	PBL	3						
7																		
8				Technical Thermodynamics I			Basics of Electrical Engineering			Fluid Dynamics			Introduction to Control Systems			Enhanced Fundamentals of Materials Science		
9				Technical Thermodynamics I	VL	2	Basics of Electrical Engineering	VL	3	Fluid Mechanics	VL	3	Introduction to Control Systems	VL	2	Materials for Energy Storage and Conversion	VL	2
10				Technical Thermodynamics I	HÜ	1	Basics of Electrical Engineering	GÜ	2	Fluid Mechanics	HÜ	2	Introduction to Control Systems	GÜ	2	Enhanced Fundamentals: Ceramics and Polymers	VL	2
11				Technical Thermodynamics I	GÜ	1										Enhanced Fundamentals: Ceramics and Polymers	HÜ	1
12																		
13																		
14				Production Engineering			Technical Thermodynamics II			Computational Mechanics			Measurement Technology for Mechanical Engineers			Materials Engineering: Materials Selection, Processing and Modelling		
15				Production Engineering 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
16				Production Engineering II	VL	2	Technical Thermodynamics II	HÜ	1	Computational Mechanics	GÜ	2	Measurement Technology for Mechanical Engineering	PR	2	Materials and Process Modeling	VL	3
17				Production Engineering II	HÜ	1	Technical Thermodynamics II	GÜ	1	Computational Structural Mechanics	IV	2	Practical Course: Measurement and Control Systems	PR	2			
18				Production Engineering I	HÜ	1												
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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.

