

Course of Study Mechanical Engineering (Study Cohort w19)

Sample course plan C Bachelor Mechanical Engineering (MBBS)

Specialisation Aircraft Systems Engineering												
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 Advanced Mechanical Design Project PBL 4	Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2		
2	Production Engineering I VL 2	Production Engineering II VL 2	Production Engineering I HÜ 1	Production Engineering II HÜ 1	Advanced Mechanical Engineering Design I VL 2	Advanced Mechanical Engineering Design II VL 2	Advanced Mechanical Engineering Design I HÜ 2	Advanced Mechanical Engineering Design II HÜ 2				
3												
4	Computer Science for Mechanical Engineers		Fundamentals of Materials Science (part 2)		Mechanical Engineering: Design (part 1)		Mechanical Engineering: Design (part 2)					
5	Computer Science for Mechanical Engineers VL 3	Fundamentals of Materials Science II VL 2	Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2		Embodiment Design and 3D-CAD VL 2		Team Project Design Methodology PBL 2					
6	Computer Science for Mechanical Engineers GÜ 2				Mechanical Design Project I PBL 3		Mechanical Design Project II PBL 3					
7												
8					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					
9							Introduction to Control Systems Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2					
10	Mathematics I		Technical Thermodynamics I Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1		Technical Thermodynamics II Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1		Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics) Mechanics IV VL 3 Mechanics IV GÜ 2 Mechanics IV HÜ 1		Measurement Technology for Mechanical Engineers Measurement Technology for Mechanical Engineering VL 2 Measurement Technology for Mechanical Engineering HÜ 1 Practical Course: Measurement and Control Systems PR 2	Aeronautical Systems Air Transportation Systems VL 2 Fundamentals of Aircraft Systems VL 2 Fundamentals of Aircraft Systems GÜ 1 Air Transportation Systems HÜ 1		
11	Linear Algebra I VL 2	Linear Algebra I HÜ 1										
12	Linear Algebra I GÜ 1	Analysis I VL 2										
13	Analysis I VL 2	Analysis I GÜ 1										
14	Analysis I GÜ 1	Analysis I HÜ 1										
15												
16			Mechanics I (Statics) Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1		Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2		Mathematics III Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1		Advanced Materials Advanced Materials Characterization VL 2 Advanced Materials Design VL 2 Advanced Materials Design HÜ 2			
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24	Fundamentals of Materials Science (part 1)		Mathematics II		Mechanics III (Dynamics) Mechanics III VL 3 Mechanics III GÜ 2 Mechanics III HÜ 1							
25	Fundamentals of Materials Science I VL 2	Linear Algebra II VL 2	Linear Algebra II GÜ 1									
26	Physical and Chemical Basics of Materials Science VL 2	Linear Algebra II HÜ 1	Analysis II VL 2									
27		Analysis II HÜ 1	Analysis II GÜ 1									
28	Team Project MB											
29	Team Project MB PBL 6											
30												
31												
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.

