Course of Study Mechanical Engineering (Study Cohort w20)

Sample course plan C Bachelor Mechanical Engineering (MBBS)

Special	lisation Aircraft Systems Engineering					
1	Production Engineering (part 1) Production Engineering I VL 2	Production Engineering (part 2) Production Engineering II VL 2	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering Design I VL 2	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering Design II VL 2	Advanced Mechanical Design Project Advanced Mechanical Design Project PBL 4	Foundations of Management 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	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 Computer Science for Mechanical Engineers GÜ 2	Fundamentals of Materials Science II VL 2	Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3	Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3		
6		Fundamentals of Mechanical Engineering Design				
7		Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2	Basics of Electrical Engineering	Fluid Dynamics	Introduction to Control Systems	Integrated Product Development and Lightweight
8		· · · · · · · · · · · · · · · · · · ·	Basics of Electrical Engineering VL 3 Basics of Electrical Engineering GŪ 2	Fluid Mechanics VL 3 Fluid Mechanics HŪ 2	Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	Design Integrated Product Development I VL 2
9			build of Electrical Engineering 00 2			Development of Lightweight Design Products VL 2
10	Mathematics I					CAE-Team Project PBL 2
11	Linear Algebra I VL 2 Linear Algebra I GÜ 1					
12	Linear Algebra I GU I Linear Algebra I HŪ 1	Technical Thermodynamics I				
13	Analysis I VL 2	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	Technical Thermodynamics II	Mechanics IV (Oscillations, Analytical Mechanics,	Measurement Technology for Mechanical Engineers	Aeronautical Systems
14	Analysis I GÜ 1 Analysis I HÜ 1	Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1	Multibody Systems, Numerical Mechanics) Mechanics IV VL 3	Measurement Technology for Mechanical VL 2 Engineering	Air Transportation Systems VL 2 Fundamentals of Aircraft Systems VL 2
15			Technical Thermodynamics II HU I Technical Thermodynamics II GŪ 1	Mechanics IV GÜ 2	Measurement Technology for Mechanical HÜ 1	Fundamentals of Aircraft Systems VL 2 Fundamentals of Aircraft Systems GŪ 1
16				Mechanics IV HÜ 1	Engineering	Air Transportation Systems HÜ 1
17					Practical Course: Measurement and Control PR 2 Systems	
18	Mechanics I (Statics)	Mechanics II: Mechanics of Materials				
19	Mechanics I VL 2	Mechanics II VL 2	Mathematics III	Advanced Materials	Simulation and Design of Mechatronic Systems	Bachelor Thesis
20	Mechanics I GÜ 2 Mechanics I HÜ 1	Mechanics II GÜ 2 Mechanics II HÜ 2	Analysis III VL 2	Advanced Materials Characterization VL 2	Simulation and Design of Mechatronic Systems VL 2	
21			Analysis III GÜ 1 Analysis III HÜ 1	Advanced Materials Design VL 2 Advanced Materials Design HŪ 2	Simulation and Design of Mechatronic Systems HÜ 1 Simulation and Design of Mechatronic Systems PR 1	
22			Differential Equations 1 VL 2			
23			Differential Equations 1 GŪ 1 Differential Equations 1 HŪ 1			
24	Fundamentals of Materials Science (part 1)	Mathematics II	Differential Equations 1 HÜ 1			
25	Fundamentals of Materials Science I VL 2	Linear Algebra II VL 2				
26	Physical and Chemical Basics of Materials Science VL 2	Linear Algebra II GÜ 1 Linear Algebra II HÜ 1				
27		Analysis II VL 2	Mechanics III (Dynamics)			
28	Team Project MB	Analysis II HÜ 1	Mechanics III VL 3			
29	Team Project MB PBL 6	Analysis II GÜ 1	Mechanics III GÜ 2 Mechanics III HÜ 1			
30			no i			
31						
32						
33						
	Non-technical Courses for Bachelors (from ca	talogue) - 6LP				

Focus Compulsory

Core Qualification Elective Compulsory Specialisation Elective Compulsory

Focus Elective Compulsory

Thesis Compulsory

Interdisciplinary complement

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.