

Course of Study Mechanical Engineering (Study Cohort w17)

Sample course plan C Bachelor Mechanical Engineering (MBBS)

Specialisation: Aircraft Systems Engineering		Semester 2		Semester 3		Semester 4		Semester 5		Semester 6	
		Form Hrs/wk		Form Hrs/wk		Form Hrs/wk		Form Hrs/wk		Form Hrs/wk	
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		Foundations of Management			
2	Production Engineering I VL 2	Production Engineering II 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	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 HÜ 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 2	Fundamentals of Materials Science II VL 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	Computer Science for Mechanical Engineers HÜ 1	Fundamentals of Mechanical Engineering Design									
8		Fundamentals of Mechanical Engineering Design VL 2									
9		Fundamentals of Mechanical Engineering Design HÜ 2									
10	Mathematics I			Basics of Electrical Engineering	Fluid Dynamics	Introduction to Control Systems		Integrated Product Development and Lightweight Design			
11	Linear Algebra I VL 2			Basics of Electrical Engineering VL 3	Fluid Mechanics VL 3	Introduction to Control Systems VL 2		Integrated Product Development I VL 2			
12	Linear Algebra I GÜ 1			Basics of Electrical Engineering GÜ 2	Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2		Development of Lightweight Design Products VL 2			
13	Linear Algebra I HÜ 1	Technical Thermodynamics I						CAE-Team Project PBL 2			
14	Analysis I VL 2	Technical Thermodynamics I VL 2									
15	Analysis I GÜ 1	Technical Thermodynamics I HÜ 1		Technical Thermodynamics II	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)	Measurement Technology for Mechanical and Process Engineers		Aeronautical Systems			
16	Analysis I HÜ 1	Technical Thermodynamics I GÜ 1		Technical Thermodynamics II VL 2	Mechanics IV VL 3	Measurement Technology for Mechanical and Process Engineers VL 2		Air Transportation Systems VL 2			
17				Technical Thermodynamics II HÜ 1	Mechanics IV GÜ 2	Measurement Technology for Mechanical and Process Engineers HÜ 1		Fundamentals of Aircraft Systems GÜ 1			
18	Mechanics I (Statics)	Mechanics II: Mechanics of Materials		Technical Thermodynamics II GÜ 1	Mechanics IV HÜ 1	Practical Course: Measurement and Control Systems PR 2		Air Transportation Systems HÜ 1			
19	Mechanics I VL 2	Mechanics II VL 2									
20	Mechanics I GÜ 2	Mechanics II GÜ 2		Mathematics III	Advanced Materials	Simulation and Design of Mechatronic Systems		Bachelor Thesis			
21	Mechanics I HÜ 1	Mechanics II HÜ 2		Analysis III VL 2	Advanced Materials Characterization VL 2	Simulation and Design of Mechatronic Systems VL 2					
22				Analysis III GÜ 1	Advanced Materials Design VL 2	Simulation and Design of Mechatronic Systems HÜ 1					
23				Analysis III HÜ 1	Advanced Materials Design HÜ 2	Simulation and Design of Mechatronic Systems PR 1					
24	Fundamentals of Materials Science (part 1)	Mathematics II		Differential Equations 1 VL 2							
25	Fundamentals of Materials Science I VL 2	Linear Algebra II VL 2		Differential Equations 1 GÜ 1							
26	Physical and Chemical Basics of Materials Science VL 2	Linear Algebra II GÜ 1		Differential Equations 1 HÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I)						
27		Linear Algebra II HÜ 1			Mechanics III VL 3						
28	Team Project MB	Analysis II VL 2			Mechanics III GÜ 2						
29	Team Project MB TT 6	Analysis II HÜ 1			Mechanics III HÜ 1						
30		Analysis II GÜ 1									
31											
32											
33											

Nontechnical Complementary 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.

