

Course of Study Mechanical Engineering (Study Cohort w17)

Sample course plan A 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	Fundamentals of Mechanical Engineering Design		Mechanical Design Project I PBL 3	Mechanical Design Project II PBL 3											
7	Computer Science for Mechanical Engineers HÜ 1			Basics of Electrical Engineering		Fluid Dynamics		Introduction to Control Systems		Integrated Product Development and Lightweight Design						
8				Basics of Electrical Engineering VL 3	Fluid Mechanics VL 3	Introduction to Control Systems VL 2										
9		Basics of Electrical Engineering GÜ 2	Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2												
10	Mathematics I	Technical Thermodynamics I		Technical Thermodynamics II		Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		Measurement Technology for Mechanical and Process Engineers		Aeronautical Systems						
11	Linear Algebra I VL 2											Technical Thermodynamics I VL 2	Technical Thermodynamics II VL 2	Mechanics IV VL 3	Measurement Technology for Mechanical and VL 2	Air Transportation Systems VL 2
12	Linear Algebra I GÜ 1											Technical Thermodynamics I HÜ 1	Technical Thermodynamics II HÜ 1	Mechanics IV GÜ 2	Process Engineers HÜ 1	Fundamentals of Aircraft Systems GÜ 1
13	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Technical Thermodynamics II GÜ 1	Mechanics IV HÜ 1	Measurement Technology for Mechanical and PR 2	Air Transportation Systems HÜ 1										
14	Analysis I VL 2	Mechanics II: Mechanics of Materials		Mathematics III		Electrical Machines		Simulation and Design of Mechatronic Systems		Bachelor Thesis						
15	Analysis I GÜ 1	Mechanics II VL 2	Analysis III VL 2									Electrical Machines VL 3				
16	Analysis I HÜ 1	Mechanics II GÜ 2	Analysis III GÜ 1									Electrical Machines HÜ 2				
17		Mechanics II HÜ 2	Analysis III HÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I)		Simulation and Design of Mechatronic Systems PR 1										
18	Mechanics I (Statics)	Mathematics II														
19	Mechanics I VL 2							Linear Algebra II VL 2	Mechanics III VL 3							
20	Mechanics I GÜ 2			Linear Algebra II GÜ 1	Mechanics III GÜ 2											
21	Mechanics I HÜ 1	Linear Algebra II HÜ 1	Mechanics III HÜ 1													
22		Analysis II VL 2	Team Project MB													
23		Analysis II HÜ 1														
24		Analysis II GÜ 1														
25	Fundamentals of Materials Science (part 1)															
26	Fundamentals of Materials Science I VL 2															
27	Physical and Chemical Basics of Materials Science VL 2															
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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.

