

# Course of Study Mechanical Engineering (Study Cohort w17)

Sample course plan B 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	<b>Production Engineering (part 1)</b>	<b>Production Engineering (part 2)</b>		<b>Advanced Mechanical Engineering Design (part 1)</b>		<b>Advanced Mechanical Engineering Design (part 2)</b>		<b>Advanced Mechanical Design Project</b>		<b>Foundations of Management</b>						
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	<b>Computer Science for Mechanical Engineers</b>	<b>Fundamentals of Materials Science (part 2)</b>		<b>Mechanical Engineering: Design (part 1)</b>		<b>Mechanical Engineering: Design (part 2)</b>										
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	<b>Fundamentals of Mechanical Engineering Design</b>		Mechanical Design Project I PBL 3	Mechanical Design Project II PBL 3											
7	Computer Science for Mechanical Engineers HÜ 1			<b>Basics of Electrical Engineering</b>		<b>Fluid Dynamics</b>		<b>Introduction to Control Systems</b>		<b>Integrated Product Development and Lightweight Design</b>						
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	<b>Mathematics I</b>	<b>Technical Thermodynamics I</b>		<b>Technical Thermodynamics II</b>		<b>Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)</b>		<b>Measurement Technology for Mechanical and Process Engineers</b>		<b>Aeronautical Systems</b>						
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	Fundamentals of Aircraft Systems HÜ 1										
14	Analysis I VL 2	Technical Thermodynamics I HÜ 1														
15	Analysis I GÜ 1															
16	Analysis I HÜ 1															
17																
18	<b>Mechanics I (Statics)</b>	<b>Mechanics II: Mechanics of Materials</b>		<b>Mathematics III</b>		<b>Fundamentals of Production and Quality Management</b>		<b>Simulation and Design of Mechatronic Systems</b>		<b>Bachelor Thesis</b>						
19	Mechanics I VL 2	Mechanics II VL 2	Analysis III VL 2	Production Process Organization VL 2	Simulation and Design of Mechatronic Systems VL 2											
20	Mechanics I GÜ 2	Mechanics II GÜ 2	Analysis III GÜ 1	Quality Management VL 2	Simulation and Design of Mechatronic Systems HÜ 1											
21	Mechanics I HÜ 1	Mechanics II HÜ 2	Analysis III HÜ 1		Simulation and Design of Mechatronic Systems PR 1											
22			Differential Equations 1 VL 2													
23			Differential Equations 1 GÜ 1													
24	<b>Fundamentals of Materials Science (part 1)</b>	<b>Mathematics II</b>		<b>Mechanics III (Hydrostatics, Kinematics, Kinetics I)</b>												
25	Fundamentals of Materials Science I VL 2	Linear Algebra II VL 2	Analysis III HÜ 1													
26	Physical and Chemical Basics of Materials Science VL 2	Linear Algebra II GÜ 1	Differential Equations 1 GÜ 1													
27		Linear Algebra II HÜ 1	Differential Equations 1 HÜ 1													
28		Analysis II VL 2														
29	<b>Team Project MB</b>	Analysis II HÜ 1	Mechanics III VL 3													
30	Team Project MB TT 6	Analysis II GÜ 1	Mechanics III GÜ 2													
31			Mechanics III HÜ 1													
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.

