

# Course of Study Mechanical Engineering (Study Cohort w23)

Sample course plan A Bachelor Mechanical Engineering (MBBS) Dual study program

Specialisation Product Development and Production

	Core Qualification Compulsory		Specialisation Compulsory		Focus Compulsory		Thesis Compulsory	
	Core Qualification Elective Compulsory		Specialisation Elective Compulsory		Focus Elective Compulsory		Interdisciplinary complement	
1	<b>Mathematics I</b>		<b>Fundamentals of Mechanical Engineering Design</b>		<b>Advanced Mechanical Engineering Design (part 1)</b>		<b>Advanced Mechanical Engineering Design (part 2)</b>	
2	Mathematics I VL 4		Fundamentals of Mechanical Engineering Design VL 2		Advanced Mechanical Engineering Design I VL 2		Advanced Mechanical Engineering Design II VL 2	<b>Advanced Mechanical Design Project</b>
3	Mathematics I HÜ 2		Fundamentals of Mechanical Engineering Design HÜ 2		Advanced Mechanical Engineering Design I HÜ 2		Advanced Mechanical Engineering Design II HÜ 2	Advanced Mechanical Design Project PBL 4
4	Mathematics I GÜ 2							Introduction to Management VL 3
5								Management Tutorial GÜ 2
6								
7								
8								
9	<b>Fundamentals of Materials Science</b>		<b>Technical Thermodynamics I</b>		<b>Basics of Electrical Engineering</b>		<b>Fluid Dynamics</b>	<b>Introduction to Control Systems</b>
10	Fundamentals of Materials Science II VL 2		Technical Thermodynamics I VL 2		Basics of Electrical Engineering VL 3		Fluid Mechanics VL 3	Introduction to Control Systems VL 2
11	Fundamentals of Materials Science I HÜ 2		Technical Thermodynamics I HÜ 1		Basics of Electrical Engineering GÜ 2		Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2
12	Physical and Chemical Basics of Materials Science VL 2		Technical Thermodynamics I GÜ 1					Digital Product Development and Lightweight Design
13								Digital Product Development VL 2
14								Development of Lightweight Design Products VL 2
15								CAE-Team Project PBL 2
16	<b>Team Project MB</b>		<b>Production Engineering</b>		<b>Technical Thermodynamics II</b>		<b>Practical module 4 (dual study program, Bachelor's degree)</b>	<b>Measurement Technology for Mechanical Engineers</b>
17	Team Project MB PBL 6		Production Engineering I VL 2		Technical Thermodynamics II VL 2		Practical term 4 0	Measurement Technology for Mechanical Engineering VL 2
18			Production Engineering II VL 2		Technical Thermodynamics II HÜ 1			Engineering PR 2
19			Production Engineering II HÜ 1		Technical Thermodynamics II GÜ 1			Measurement Technology for Mechanical Engineering PR 2
20			Production Engineering I HÜ 1					Practical Course: Measurement and Control Systems PR 2
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
Linking theory and practice (dual study program, Bachelor's degree) (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.

