

Course of Study Mechanical Engineering (Study Cohort w18)

Sample course plan A Bachelor Mechanical Engineering (MBBS)

Specialisation: Materials in Engineering Sciences

		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 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	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			Fundamentals of Mechanical Engineering Design VL 2	Basics of Electrical Engineering		Fluid Dynamics		Introduction to Control Systems		Structural Materials (part 2)		
8			Fundamentals of Mechanical Engineering Design HÜ 2	Basics of Electrical Engineering VL 3	Fluid Mechanics VL 3	Introduction to Control Systems VL 2	Fundamentals of Mechanical Properties of Materials VL 2					
9					Basics of Electrical Engineering GÜ 2	Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2			Enhanced Fundamentals of Materials Science		
10											Enhanced Fundamentals: Metals VL 2	
11	Mathematics I									Enhanced Fundamentals: Ceramics and Polymers VL 2		
12	Linear Algebra I VL 2									Enhanced Fundamentals: Ceramics and Polymers HÜ 1		
13	Linear Algebra I GÜ 1											
14	Linear Algebra I HÜ 1											
15	Analysis I VL 2	Technical Thermodynamics I		Technical Thermodynamics II		Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		Measurement Technology for Mechanical Engineers				
16	Analysis I GÜ 1	Technical Thermodynamics I VL 2	Technical Thermodynamics II VL 2	Technical Thermodynamics II VL 2	Mechanics IV VL 3	Measurement Technology for Mechanical Engineering VL 2						
17	Analysis I HÜ 1	Technical Thermodynamics I HÜ 1	Technical Thermodynamics II HÜ 1	Technical Thermodynamics II HÜ 1	Mechanics IV GÜ 2	Measurement Technology for Mechanical Engineering HÜ 1						
18	Analysis I HÜ 1	Technical Thermodynamics I GÜ 1	Technical Thermodynamics II GÜ 1	Technical Thermodynamics II GÜ 1	Mechanics IV HÜ 1	Measurement Technology for Mechanical Engineering PR 2						
19											Bachelor Thesis	
20	Mechanics I (Statics)	Mechanics II: Mechanics of Materials										
21	Mechanics I VL 2	Mechanics II VL 2										
22	Mechanics I GÜ 2	Mechanics II GÜ 2										
23	Mechanics I HÜ 1	Mechanics II HÜ 2										
24												
25												
26												
27												
28												
29												
30												
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.

