Course of Study Mechanical Engineering (Study Cohort w23)

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

Core Qualification Compulsory Specialisation Compulsory Focus Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus

Focus Compulsory Pocus Elective Compulsory Thesis Compulsory Interdisciplinary complement

Specia	lisation Biomechanics					
1	Mathematics I	Fundamentals of Mechanical Engineering Design	Advanced Mechanical Engineering Design (part 1)	Advanced Mechanical Engineering Design (part 2)	Advanced Mechanical Design Project	Foundations of Management
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	Advanced Mechanical Design Project PBL 4	Introduction to Management VL 3
2	Mathematics I HŪ 2	Fundamentals of Mechanical Engineering Design HÜ 2	Advanced Mechanical Engineering Design I HÜ 2	Advanced Mechanical Engineering Design II HŪ 2		Management Tutorial GŪ 2
3	Mathematics I GÜ 2					
4			Mechanical Engineering: Design (part 1)	Mechanical Engineering: Design (part 2)		
5			and Practical Training	Mechanical Design Methodology PBL 2 Mechanical Design Project II PBI 3		
6			Mechanical Design Project I PBL 3	······		
7		Technical Thermodynamics I	Basics of Electrical Engineering	Fluid Dynamics	Introduction to Control Systems	MED II: Introduction to Physiology
8		Technical Thermodynamics I VL 2	Basics of Electrical Engineering VL 3	Fluid Mechanics VL 3	Introduction to Control Systems VL 2	Introduction to Physiology VL 2
0	Fundamentals of Materials Colores	Technical Thermodynamics I HÜ 1	Basics of Electrical Engineering GÜ 2	Fluid Mechanics HŪ 2	Introduction to Control Systems GÜ 2	
	Fundamentals of Materials Science II VL 2	Technical Thermodynamics I GU 1				
10	Fundamentals of Materials Science I VL 2					BIO I: Experimental Methods in Biomechanics
11	Physical and Chemical Basics of Materials Science VL 2					Experimental methods in Biomethanics VE 2
12						
13		Production Engineering	Technical Thermodynamics II	Practical module 4 (dual study program, Bachelor's	Measurement Technology for Mechanical Engineers	Bachelor thesis (dual study program)
14		Production Engineering I VL 2	Technical Thermodynamics II VL 2	degree)	Measurement Technology for Mechanical VL 2	
15	Team Project MB	Production Engineering II VL 2	Technical Thermodynamics II HÜ 1	Practical term 4 0	Engineering	
10	Team Project MB PBL 6	Production Engineering II HU 1	Technical Thermodynamics II GU 1		Measurement Lechnology for Mechanical PR 2 Engineering	
10		Houdedon Engineering F			Practical Course: Measurement and Control PR 2	
17					Systems	
18						
19		Mathematics II	Mathematics III	Computational Mechanics	Practical module 5 (dual study program, Bachelor's	
20		Mathematics II VL 4	Analysis III VL 2	Computational Multibody Dynamics IV 2	degree)	
21	Computer Science for Engineers - Introduction and	Mathematics II HÜ 2	Analysis III GŪ 1	Computational Mechanics GÜ 2	Practical term 5 0	
22	Overview	Mathematics II GU 2	Differential Equations 1 VI 2	Computational Stuctural Mechanics IV 2		
22	Computer Science for Engineers - Introduction VL 3		Differential Equations 1 GŪ 1			
23	and Overview		Differential Equations 1 HÜ 1			
24	and Overview					
25				MED I: Introduction to Anatomy	MED II: Introduction to Biochemistry and Molecular	
26				Introduction to Anatomy VL 2	Biology	
27	Practical module 1 (dual study program, Bachelor's	Practical module 2 (dual study program, Bachelor's	Practical module 3 (dual study program, Bachelor's		Biology	
28	degree)	degree)	degree)	MED I: Introduction to Radiology and Radiation	BIO I: Implants and Fracture Healing	
20	Practical term 1 0	Practical term 2 0	Practical term 3 0	Therapy	Implants and Fracture Healing VL 2	
29				Introduction to Radiology and Radiation Therapy VL 2		
30						
31				Advanced Materials for Sustainability		
32				Advanced Materials Characterization VL 2		
33	Engineering Mechanics I (Stereostatics)	Engineering Mechanics II (Elastostatics)	Engineering Mechanics III (Dynamics)	Advanced Materials for Sustainability VL 2 Advanced Materials for Sustainability HŪ 2		
34	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2	Engineering Mechanics III VL 3			
35	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2	Engineering Mechanics III GÜ 2			
36	Engineering Mechanics I HU 1	Engineering mechanics II HU 2	Engineering Mechanics III HU 1			
					1	
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.