Course of Study Mechanical Engineering (Study Cohort w19)

Sample course plan C Bachelor Mechanical Engineering (MBBS) Specialisation Materials in Engineering Sciences

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory	
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement	

LP	Semester 1	Forn h lrs/	w&emester 2	Forn h lrs/	w&semester 3	Forn h lrs/	w&semester 4	Forn h lrs/	w&emester 5	FornHrs	w&semester 6	Forn h lrs/w
2	0 0	art 1) VL 2 HÜ 1	Production Engineering (p Production Engineering II Production Engineering II	art 2) VL 2 HÜ 1	Advanced Mechanical Engineering Design (part 1 Advanced Mechanical Engineering Design I	VL 2	Advanced Mechanical Engineering Design (part Advanced Mechanical Engineering Design II	VL 2	Advanced Mechanical Desi Project Advanced Mechanical Design Project	gn PBL 4	Foundations of Management Introduction to Management Management Tutorial	
					Advanced Mechanical Engineering Design I	HÜ 2	Advanced Mechanical Engineering Design II	HÜ 2				
5	Computer Science for Mech Engineers	anical	Fundamentals of Materials Science (part 2)		Mechanical Engineering: D (part 1)	esign	Mechanical Engineering: I (part 2)	Design				
	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	UE 2	Fundamentals of Mechanic	al	Mechanical Design Project I	PBL 3	Mechanical Design Project I	I PBL 3				
8			Engineering Design		Basics of Electrical Engine	ering	Fluid Dynamics		Introduction to Control Sys	stems	Structural Materials (part 2))
9			Fundamentals of Mechanical Engineering Design		Basics of Electrical Engineering	VL 3	Fluid Mechanics Fluid Mechanics	VL 3 HÜ 2	Introduction to Control Systems	VL 2	Fundamentals of Mechanical Properties of Materials	VL 2
10 11	Mathematics I Linear Algebra I	VL 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Basics of Electrical Engineering	UE 2			Introduction to Control Systems	UE 2	Enhanced Fundamentals of Materials Science	f
12	· ·	UE 1	Technical Thermodynamic	s I							Enhanced Fundamentals:	VL 2
13	· ·	HÜ 1	Technical Thermodynamics I		Technical Thermodynamic	s II	Mechanics IV (Kinetics II,		Measurement Technology 1	or	Metals	
14	3	VL 2	Technical Thermodynamics I		Technical Thermodynamics	VL 2	Oscillations, Analytical		Mechanical and Process		Enhanced Fundamentals:	VL 2
15	•	UE 1	Technical Thermodynamics I	UE 1	II		Mechanics, Multibody Sys	,	Engineers	\ <i>'</i> '' 0	Ceramics and Polymers	HÜ 1
	•	HÜ 1			Technical Thermodynamics	HÜ 1	Mechanics IV Mechanics IV	VL 3 UE 2	Measurement Technology for Mechanical and Process	VL 2	Enhanced Fundamentals: Ceramics and Polymers	ни і
16 17					Technical Thermodynamics	UE 1	Mechanics IV	HÜ 1	Engineers Measurement Technology for	HÜ 1	Bachelor Thesis	
18	Mechanics I (Statics)		Mechanics II: Mechanics o	f	11				Mechanical and Process Engineers			
	Mechanics I	VL 2	Materials						Practical Course:	PR 2		
	Mechanics I	UE 2	Mechanics II	VL 2					Measurement and Control Systems			
19	Mechanics I	HÜ 1	Mechanics II	UE 2					Cystems			
20			Mechanics II	HÜ 2	Mathematics III		Advanced Materials		Structural Materials (part 1))		
21					Analysis III	VL 2	Advanced Materials	VL 2	Welding Technology	VL 3		
22					Analysis III	UE 1	Characterization Advanced Materials Design	VL 2	Material Science Laborator	v		
23					Analysis III	HÜ 1	Advanced Materials Design		Companion Lecture for	y VL 2		
24	Fundamentals of Materials		Mathematics II		Differential Equations 1	VL 2 UE 1	anota materials Design	110 2	Materials Science Laboratory	VL Z		
25	Science (part 1)		Linear Algebra II	VL 2	Differential Equations 1 Differential Equations 1	UE I HÜ 1			Material Science Laboratory	PR 4		
26 27		VL 2	Linear Algebra II	UE 1	Dinerential Equations 1	110 1						
21	Science I Physical and Chemical	VL 2	Linear Algebra II	HÜ 1	Mechanics III (Hydrostatics Kinematics, Kinetics I)	5,						
	Basics of Materials Science		Analysis II	VL 2	Mechanics III	VL 3						

28 29 30 31 32	Team Project MB Team Project MB PBL 6	Analysis II Analysis II	HÜ 1 UE 1	Mechanics III Mechanics III	UE 2 HÜ 1
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.