Course of Study Mechanical Engineering (Study Cohort w20)

Sample course plan A Bachelor Mechanical Engineering (MBBS)

Special	isation Product Development a	nd Pro	oduction									
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		. 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 HŪ) 1	Production Engineering II	HÜ 1	Advanced Mechanical Engineering Design I	HÜ 2	Advanced Mechanical Engineering Design II	HŪ 2			Management Tutorial	GŪ 2
4	Computer Science for Mechanical Engineers		Fundamentals of Materials Science (part 2)		Mechanical Engineering: Design (part 1)		Mechanical Engineering: Design (part 2)					
5		. 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 De	sian	Mechanical Design Project I	PBL 3	Mechanical Design Project II	PBL 3				
7			Fundamentals of Mechanical Engineering Design		Basics of Electrical Engineering		Fluid Dynamics		Introduction to Control Systems		Integrated Product Development and Light	weight
8			Fundamentals of Mechanical Engineering Design	HÜ 2	Basics of Electrical Engineering	VL 3	Fluid Mechanics	VL 3	Introduction to Control Systems	VL 2	Design	
					Basics of Electrical Engineering	GŪ 2	Fluid Mechanics	HŪ 2	Introduction to Control Systems	GÜ 2	Integrated Product Development I	VL 2
9											Development of Lightweight Design Products CAE-Team Project	VL 2 PBL 2
10	Mathematics I Linear Algebra I VL	. 2									CAE-reant Project	PBL 2
11	Linear Algebra I VL											
12	Linear Algebra I HŪ		Technical Thermodynamics I									
13		2	Technical Thermodynamics I Technical Thermodynamics I	VL 2 HÜ 1	Technical Thermodynamics II		Mechanics IV (Oscillations, Analytical Mec		Measurement Technology for Mechanical E		Bachelor Thesis	
14	Analysis I GÜ Analysis I HŪ			GÜ 1	Technical Thermodynamics II	VL 2 HÜ 1	Multibody Systems, Numerical Mechanics Mechanics IV) VL 3	Measurement Technology for Mechanical Engineering	VL 2		
15					Technical Thermodynamics II Technical Thermodynamics II	ΗÜ 1 GÜ 1	Mechanics IV	GÜ 2	Measurement Technology for Mechanical	HÜ 1		
16							Mechanics IV	HŪ 1	Engineering			
17									Practical Course: Measurement and Control Systems	PR 2		
18	Mechanics I (Statics)		Mechanics II: Mechanics of Materials						Systems			
19		. 2	Mechanics II	VL 2	Mathematics III		Electrical Machines and Actuators		Production Technology			
20	Mechanics I GÜ			GÜ 2	Analysis III	VL 2	Electrical Machines and Actuators	VL 3	Forming and Cutting Technology	VL 2		
21	Mechanics I HÜ) 1	Mechanics II	HÜ 2	Analysis III	GŪ 1	Electrical Machines and Actuators	HŪ 2	Forming and Cutting Technology	HÜ 1		
					Analysis III Differential Equations 1	HÜ 1 VL 2			Fundamentals of Machine Tools Fundamentals of Machine Tools	VL 2 HÜ 1		
22					Differential Equations 1	GÜ 1			Fundamentals of Machine Tools	HU I		
23					Differential Equations 1	HÜ 1						
24	Fundamentals of Materials Science (part 1)	2	Mathematics II	14 2								
25	Fundamentals of Materials Science I VL Physical and Chemical Basics of Materials Science VL	2	Linear Algebra II Linear Algebra II	VL 2 GÜ 1					Material Science Laboratory			
26			Linear Algebra II	HÜ 1					Companion Lecture for Materials Science Laboratory	VL 2		
27			Analysis II	VL 2	Mechanics III (Dynamics)				Material Science Laboratory	PR 4		
28	Team Project MB		Analysis II	HÜ 1 GÜ 1	Mechanics III	VL 3						
29	Team Project MB PBL	L 6	Analysis II	GU 1	Mechanics III Mechanics III	GÜ 2 HÜ 1						
30					incentines in	110 1						
31												
32												
33												
	Non-technical Courses for Bachelors (f	rom cat	alogue) - 6LP									

Focus Compulsory

Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory

Thesis Compulsory

Interdisciplinary complement

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.