Course of Study Mechanical Engineering (Study Cohort w20)

Sample course plan A Bachelor Mechanical Engineering (MBBS)

Specialisation Energy Sy	stems									
Production Engineering (p) 2 Production Engineering I 3 Production Engineering I	VL 2		VL 2 HÜ 1	Advanced Mechanical Engineering Design Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design I	(part 1) VL 2 HÜ 2	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering Design II VL Advanced Mechanical Engineering Design II HÜ	2	Advanced Mechanical Design Project Advanced Mechanical Design Project PBL 4		VL 3 GÜ 2
4 Computer Science for Mechan 5 Computer Science for Mechan 6 Computer Science for Mechan	ical Engineers VL 3 ical Engineers GÜ 2	Fundamentals of Mechanical Engineering Des		Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD Mechanical Design Project I	VL 2 PBL 3	Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL Mechanical Design Project II PBL				
7 8 9		Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design		Basics of Electrical Engineering Basics of Electrical Engineering Basics of Electrical Engineering	VL 3 GŪ 2	Fluid Dynamics Fluid Mechanics VL Fluid Mechanics HÜ	3	Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2		VL 2 HÜ 1
10 Mathematics I 11 Linear Algebra I 12 Linear Algebra I	VL 2 GÜ 1 HÜ 1	Technical Thermodynamics I							Bachelor Thesis	
13 Analysis I 14 Analysis I 15 Analysis I 16 1 17 Analysis I	VL 2 GÜ 1	Technical Thermodynamics I	VL 2 HÜ 1 GÜ 1	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1 GŨ 1	Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics) Mechanics IV VL Mechanics IV GÜ Mechanics IV HÜ	3 2 1	Measurement Technology for Mechanical Engineering VL 2 Engineering		
18 Mechanics I (Statics) 19 Mechanics I 20 Mechanics I 21 Mechanics I 22 Image: State St	VL 2 GÜ 2	Mechanics II	VL 2 GÜ 2 HÜ 2	Mathematics III Analysis III Analysis III Analysis III Differential Equations 1 Differential Equations 1	VL 2 GŪ 1 HŪ 1 VL 2 GŪ 1	Electrical Machines and Actuators Electrical Machines and Actuators VL Electrical Machines and Actuators HÜ	3	Heat Transfer VL 3 Heat Transfer HÜ 2		
24 Fundamentals of Materials 25 Fundamentals of Materials 26 Physical and Chemical Basics 27 27	ence I VL 2 of Materials Science VL 2	Linear Algebra II Linear Algebra II Analysis II Analysis II	VL 2 GÜ 1 HÜ 1 VL 2 HÜ 1 GÜ 1	Differential Equations 1	HÜ 1			Reciprocating Machinery (part 1) Fundamentals of Reciprocating Engines and VL 1 Turbomachinery - Part Reciprocating Engines Fundamentals of Reciprocating Engines and HÜ 1 Turbomachinery - Part Reciprocating Engines		
227 Team Project MB 29 Team Project MB 30 Team Project MB 31 Team Project MB	PBL 6			Mechanics III (Dynamics) Mechanics III Mechanics III Mechanics III	VL 3 GŪ 2 HÜ 1			Gas and Steam Power Plants Gas and Steam Power Plants VL 3 Gas and Steam Power Plants HÜ 1		
32 33										

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.