Course of Study Mechatronics (Study Cohort w2 Core Calification Compulsory Specialisation Elective Compulsory Specialisation Elective Compulsory Specialisation Elective Compulsory Specialisation Elective Compulsory Interdisciplinary complement

1	Electrical Engineering I: Direct Current Networks and	Electrical Engineering II: Alternating Current Networks	Mechanical Engineering: Design (part 1)		Mechanical Engineering: Design (part 2)		Technical Thermodynamics II	Electrical Machines and Actuators	
2	Electromagnetic Fields	and Basic Devices		VL 2	Team Project Design Methodology	PBL 2	Technical Thermodynamics II VL 2	Electrical Machines and Actuators	VL 3
	Electrical Engineering I: Direct Current Networks VL 3	Electrical Engineering II: Alternating Current VL 3	and Practical Training		Mechanical Design Project II	PBL 3	Technical Thermodynamics II HÜ 1	Electrical Machines and Actuators	HÜ :
3	and Electromagnetic Fields Electrical Engineering I: Direct Current Networks GÜ 2	Networks and Basic Devices Electrical Engineering II: Alternating Current GÜ 2	Mechanical Design Project I P	BL 3			Technical Thermodynamics II GÜ 1		
1	and Electromagnetic Fields	Networks and Basic Devices	Electrical Engineering III: Circuit Theory and		Production Engineering (part 2)				
5			Transients Circuit Theory	VL 3	Production Engineering II Production Engineering II	VL 2 HŪ 1			
6				GÜ 2	Production Engineering in	110 1			
7	Mathematics I	Fundamentals of Mechanical Engineering Design			Technical Thermodynamics I		Foundations of Management	Semiconductor Circuit Design	
8	Linear Algebra I VL 2	Fundamentals of Mechanical Engineering Design VL 2			Technical Thermodynamics I	VL 2	Introduction to Management VL 3		VL 3
9	Linear Algebra I GÜ 1	Fundamentals of Mechanical Engineering Design HÜ 2			Technical Thermodynamics I	HŪ 1	Management Tutorial GÜ 2	Semiconductor Circuit Design	GÜ 1
	Linear Algebra I HŪ 1 Analysis I VL 2				Technical Thermodynamics I	GÜ 1			
10	Analysis I GÜ 1		Production Engineering (part 1) Production Engineering I	VL 2					
11	Analysis I HÜ 1			VL Z HÜ 1					
12									
13		Mechanics II: Mechanics of Materials	Mathematics III		Signals and Systems		Introduction to Control Systems	Bachelor Thesis	
14		Mechanics II VL 2	•	VL 2	Signals and Systems	VL 3	Introduction to Control Systems VL 2		
15	Mechanics I (Statics)	Mechanics II GÜ 2	•	30 1	Signals and Systems	GÜ 2	Introduction to Control Systems GÜ 2		
	Mechanics I VL 2	Mechanics II HÜ 2		HÜ 1 VL 2					
16	Mechanics I GÜ 2			3Ū 1					
17	Mechanics I HÜ 1			HÜ 1					
18									
19		Mathematics II			Mathematics IV		Measurement Technology for Mechanical Engineers		
20		Linear Algebra II VL 2			Complex Functions	VL 2	Measurement Technology for Mechanical VL 2		
21	Fundamentals of Materials Science (part 1)	Linear Algebra II GÜ 1	Engineering Mechanics III (Dynamics)		Complex Functions	GÜ 1	Engineering Measurement Technology for Mechanical PR 2		
	Fundamentals of Materials Science VL 2	Linear Algebra II HÜ 1 Analysis II VL 2		VL 3	Complex Functions Differential Equations 2	HÜ 1 VL 2	Engineering		
22	Physical and Chemical Basics of Materials Science VL 2	Analysis II HÜ 1	Engineering Mechanics III	GÜ 2	Differential Equations 2	GÜ 1	Practical Course: Measurement and Control PR 2		
23		Analysis II GÜ 1	Engineering Mechanics III	HÜ 1	Differential Equations 2	HŪ 1	Systems		
24									
25	Computer Science for Engineers - Introduction and				Computational Mechanics		Simulation and Design of Mechatronic Systems		
26	Overview				Computational Multibody Dynamics	IV 2	Simulation and Design of Mechatronic Systems VL 2		
27	Computer Science for Engineers - Introduction VL 3 and Overview	Computer Science for Engineers - Programming			Computational Mechanics	GÜ 2	Simulation and Design of Mechatronic Systems HÜ 1		
	Computer Science for Engineers - Introduction GÜ 2	Concepts, Data Handling & Communication			Computational Stuctural Mechanics	IV 2	Simulation and Design of Mechatronic Systems PR 1		
28	and Overview	Computer Science for Engineers - Programming VL 3							
29		Concepts, Data Handling & Communication							
30		Computer Science for Engineers - Programming GÜ 2 Concepts, Data Handling & Communication							
31		3							
32	1								
33	1	Fundamentals of Materials Science (part 2)							
		Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II VL 2							
34									

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