Course of Study Mechatronics (Study Cohort w2 200 lifection Compulsory Specialisation Compulsory Specialisation Elective Computed Specialisation Elective Compulsory Specialisation Elective Co

				Core Qualific	ation Elective Col	npulsory Specialisation Elective Compulsory Focu	5 Elective el	ompulsory Interdisciplinary comple	remenc
ample	course plan B Bachelor Mechatron	cs (MECBS) Dual study program							
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	Embodiment Design and 3D-CAD Introduction VL 2	Team Project Design Methodology	PBL 2			Electrical Machines and Actuators	VL 3
;	Electrical Engineering I: Direct Current Networks VL 3 and Electromagnetic Fields	Electrical Engineering II: Alternating Current VL 3 Networks and Basic Devices	and Practical Training	Mechanical Design Project II	PBL 3	Technical Thermodynamics II HU		Electrical Machines and Actuators	ΗÜ
_	Electrical Engineering I: Direct Current Networks GÜ 2	Electrical Engineering II: Alternating Current GÜ 2	Mechanical Design Project I PBL 3			Technical Thermodynamics II GÜ	1		
L .	and Electromagnetic Fields	Networks and Basic Devices	Electrical Engineering III: Circuit Theory and Transients	Technical Thermodynamics I	10 2				
5			Circuit Theory VL 3	Technical Thermodynamics I Technical Thermodynamics I	VL 2 HŪ 1				
6			Circuit Theory GŪ 2	Technical Thermodynamics I	GÜ 1				
7	Mathematics I	Fundamentals of Mechanical Engineering Design				Foundations of Management		Semiconductor Circuit Design	
8	Mathematics I VL 4	Fundamentals of Mechanical Engineering Design VL 2				Introduction to Management VL	. 3	Semiconductor Circuit Design	VL 3
9	Mathematics I HŪ 2	Fundamentals of Mechanical Engineering Design HÜ 2				Management Tutorial GÜ	2	Semiconductor Circuit Design	GŪ 1
	Mathematics I GÜ 2								
10			Mathematics III	Signals and Systems					
11			Analysis III VL 2 Analysis III GŪ 1	Signals and Systems Signals and Systems	VL 3 GÜ 2				
12			Analysis III HÜ 1	Signals and Systems	00 2				
13		Mathematics II	Differential Equations 1 VL 2			Introduction to Control Systems		Bachelor thesis (dual study program)	
14		Mathematics II VL 4	Differential Equations 1 GŪ 1				. 2	, , <u>,</u> , , , , , , , , , , , , , , , ,	
		Mathematics II HÜ 2	Differential Equations 1 HÜ 1			Introduction to Control Systems GÜ	2		
15	Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2	Mathematics II GÜ 2							
16	Physical and Chemical Basics of Materials Science VL 2			Production Engineering					
17				Production Engineering I	VL 2 VL 2				
18			Practical module 3 (dual study program, Bachelor's	Production Engineering II Production Engineering II	VL 2 HŪ 1				
19	Computer Science for Engineers - Introduction and		degree)	Production Engineering I	HŪ 1	Measurement Technology for Mechanical Engin	eers		
20	Overview		Practical term 3 0				. 2		
20	Computer Science for Engineers - Introduction VL 3					Engineering			
	and Overview Computer Science for Engineers - Introduction GÜ 2	Computer Science for Engineers - Programming Concepts, Data Handling & Communication				Measurement Technology for Mechanical PF Engineering	1 2		
22	and Overview	Computer Science for Engineers - Programming VL 3		Mathematics IV			1 2		
23		Concepts, Data Handling & Communication		Complex Functions Complex Functions	VL 2 GÜ 1	Systems			
24		Computer Science for Engineers - Programming GÜ 2	Engineering Mechanics III (Dynamics)	Complex Functions	HŪ 1				
25	Practical module 1 (dual study program, Bachelor's	Concepts, Data Handling & Communication	Engineering Mechanics III VL 3	Differential Equations 2	VL 2	Simulation and Design of Mechatronic Systems			
26	degree)		Engineering Mechanics III GŪ 2	Differential Equations 2	GÜ 1	Simulation and Design of Mechatronic Systems VL			
	Practical term 1 0		Engineering Mechanics III HÜ 1	Differential Equations 2	HŪ 1	Simulation and Design of Mechatronic Systems HU			
27		Practical module 2 (dual study program, Bachelor's degree)				Simulation and Design of Mechatronic Systems PR	1		
28		Practical term 2 0		Practical module 4 (dual study program,	Bachelor's				
29				degree) Practical term 4	0				
30									
31	Engineering Mechanics I (Stereostatics)					Practical module 5 (dual study program, Bache	lor's		
32	Engineering Mechanics I VL 2					degree)			
33	Engineering Mechanics I GÜ 2	Frankright Markenlag II (Frankright)				Practical term 5	0		
	Engineering Mechanics I HÜ 1	Engineering Mechanics II (Elastostatics) Engineering Mechanics II VL 2							
34		Engineering Mechanics II GÜ 2		Computational Mechanics					
35		Engineering Mechanics II HÜ 2		Computational Multibody Dynamics Computational Mechanics	IV 2 GÜ 2				
36				Computational Stuctural Mechanics	IV 2				
37									
38									
39		Fundamentals of Maturials Column (and C)							
		Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II VL 2				1			
40			l						
	Linking theory and practice (dual study progr	am, 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.