Course of Study Mechatronics (Study Cohort w2 Corporation Compulsory Cohort w2 Corporation Elective Compulsory Compulsory Cohort w2 Corporation Elective Compulsory Compulsory Cohort w2 Corporation Elective Compulsory Cohort w2 Corporation Elective Compulsory Cohort w2 Corporation Elective Compulsory Cohort w2 Cohor

Sample	course plan A Bachelor Mechatroni	cs (MECBS)						
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	Technical Thermodynamics II VL 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 I PBL 3	Mechanical Design Project II	PBL 3	Technical Thermodynamics II HÜ 1	Electrical Machines and Actuators HÜ	
4	Electrical Engineering I: Direct Current Networks GÜ 2	Electrical Engineering II: Alternating Current GÜ 2	Electrical Engineering III: Circuit Theory and	Production Engineering (part 2)		Technical Thermodynamics II GÜ 1		
5	and Electromagnetic Fields	Networks and Basic Devices	Transients	Production Engineering (part 2)	VL 2			
-			Circuit Theory VL 3	Production Engineering II	HÜ 1			
6			Circuit Theory GÜ 2					
7	Mathematics I	Fundamentals of Mechanical Engineering Design		Technical Thermodynamics I		Foundations of Management	Semiconductor Circuit Design	
8	Linear Algebra I VL 2 Linear Algebra I GÜ 1	Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2		Technical Thermodynamics I Technical Thermodynamics I	VL 2 HŪ 1	Introduction to Management	Semiconductor Circuit Design VL Semiconductor Circuit Design GÜ	
9	Linear Algebra I HÜ 1	Fundamentals of Mechanical Engineering Design HU 2		Technical Thermodynamics I	GÜ 1	Management Lutorial G0 2	Semiconductor Circuit Design G0	
10	Analysis I VL 2		Production Engineering (part 1)					
11	Analysis I GÜ 1		Production Engineering I VL 2					
12	Analysis I HÜ 1		Production Engineering I HÜ 1					
13		Mechanics II: Mechanics of Materials Mechanics II VL 2	Mathematics III Analysis III VL 2	Signals and Systems Signals and Systems	VL 3	Introduction to Control Systems Introduction to Control Systems VL 2	Bachelor Thesis	
14		Mechanics II GÜ 2	Analysis III VL 2 Analysis III GÜ 1	Signals and Systems	GÜ 2	Introduction to Control Systems VC 2 Introduction to Control Systems GÜ 2		
15	Mechanics I (Statics)	Mechanics II HÜ 2	Analysis III HÜ 1					
16	Mechanics I VL 2 Mechanics I GÜ 2		Differential Equations 1 VL 2					
17	Mechanics I GÜ 2 Mechanics I HÜ 1		Differential Equations 1 GÜ 1					
18	mechanics i no i		Differential Equations 1 HÜ 1					
19		Mathematics II		Mathematics IV		Measurement Technology for Mechanical Engineers		
$\overline{}$		Linear Algebra II VL 2		Complex Functions	VL 2	Measurement Technology for Mechanical Engineers Weasurement Technology for Mechanical VL 2		
20		Linear Algebra II GÜ 1		Complex Functions	GÜ 1	Engineering		
21	Fundamentals of Materials Science (part 1)	Linear Algebra II HÜ 1	Engineering Mechanics III (Dynamics)	Complex Functions	HŪ 1	Measurement Technology for Mechanical PR 2		
22	Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials Science VL 2	Analysis II VL 2	Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2	Differential Equations 2	VL 2	Engineering Practical Course: Measurement and Control PR 2		
23	Thysical and Chemical basics of Materials Science VE 2	Analysis II HÜ 1 Analysis II GÜ 1	Engineering Mechanics III HÜ 1	Differential Equations 2 Differential Equations 2	GÜ 1 HÜ 1	Systems 2		
24		30 1		Zina Equations E				
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		
28	Computer Science for Engineers - Introduction GÜ 2	Concepts, Data Handling & Communication		Computational Stuctural Mechanics	IV 2	Simulation and Design of Mechatronic Systems PR 1		
	and Overview	Computer Science for Engineers - Programming VL 3						
29		Concepts, Data Handling & Communication Computer Science for Engineers - Programming GÜ 2						
30		Concepts, Data Handling & Communication						
31								
32								
33		Fundamentals of Materials Science (part 2)						
34		Fundamentals of Materials Science II VL 2						
	Non-technical 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.