Course of Study Mechatronics (Study Cohort w2

			_		core quanication electro	ive com	pulsory Specialisation Elective Compulsory Focus		interdisciplinary compl	ement
ample	course plan B Bachelor Mechatro	DNICS (MECBS)								
1 2	Procedural Programming Procedural Programming VL 1 Procedural Programming HŪ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current VL 3	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		Technical Thermodynamics II Technical Thermodynamics II VL Technical Thermodynamics II HÜ	2	Electrical Machines and Actuators Electrical Machines and Actuators Electrical Machines and Actuators	VL : HÜ :
3 4	Procedural Programming PR 2	Networks and Basic Devices Electrical Engineering II: Alternating Current GÜ 2 Networks and Basic Devices	Electrical Engineering III: Circuit Theory and Transients		Production Engineering (part 2)	_	Technical Thermodynamics II GÜ			
5 6			Circuit Theory Circuit Theory	VL 3 GŪ 2	Production Engineering II VL Production Engineering II HÜ					
7 8 9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current Networks VL 3	Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2			Technical Thermodynamics I VL Technical Thermodynamics I HÜ	1	-	3 2	Semiconductor Circuit Design Semiconductor Circuit Design Semiconductor Circuit Design	VL 3 GŪ 1
9 10	and Electromagnetic Fields Electrical Engineering I: Direct Current Networks GÜ 2		Production Engineering (part 1)		Technical Thermodynamics I GÜ	1				
11 12	and Electromagnetic Fields		Production Engineering I Production Engineering I	VL 2 HÜ 1						
12	Mathematics I	Mechanics II: Mechanics of Materials	Computer Engineering		Signals and Systems		Introduction to Control Systems		Bachelor Thesis	
13 14 15	Linear Algebra I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1	Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2	Computer Engineering Computer Engineering	VL 3 GŪ 1	Signals and Systems VL	3 2	Introduction to Control Systems VL	2 2		
16 17	Analysis I VL 2 Analysis I GÜ 1									
18	Analysis I HÜ 1									
19		Mathematics II	Mathematics III		Mathematics IV		Measurement Technology for Mechanical Engine			
20		Linear Algebra II VL 2 Linear Algebra II GÜ 1	Analysis III Analysis III	VL 2 GÜ 1	Complex Functions VL Complex Functions GÜ	2	Measurement Technology for Mechanical VL Engineering	2		
21 22	Mechanics I (Statics) Mechanics I VL 2	Linear Algebra II HÜ 1 Analysis II VL 2	Analysis III Differential Equations 1	HÜ 1 VL 2	Complex Functions HŪ Differential Equations 2 VL	1 2	Engineering	1		
23 24	Mechanics I GÜ 2 Mechanics I HÜ 1	Analysis II HÜ 1 Analysis II GÜ 1	Differential Equations 1 Differential Equations 1	GÜ 1 HÜ 1	Differential Equations 2 GÜ Differential Equations 2 HÜ	1 1	Practical Course: Measurement and Control PR Systems	2		
25					Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)		Simulation and Design of Mechatronic Systems Simulation and Design of Mechatronic Systems VL			
27	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science (part 2)	Mechanics III (Dynamics)		Mechanics IV VL Mechanics IV GÜ	3	Simulation and Design of Mechatronic Systems HÜ			
8	Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials Science VL 2	Fundamentals of Materials Science II VL 2	Mechanics III Mechanics III	VL 3 GÜ 2		1	Simulation and Design of Mechatronic Systems PR	1		
29 30			Mechanics III	HÜ 1						
31 32										
	Non-technical Courses for Bachelors (from	catalogue) - 6LP								

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.