## Course of Study Mechatronics (Study Cohort w2 Core Calification Compulsory Specialisation Elective Compulsory Specialisation Elective Compulsory Specialisation Elective Compulsory Specialisation Elective Compulsory Encus Elective Encus

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	
	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 :
2	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	НÜ
3	and Electromagnetic Fields	Networks and Basic Devices	Mechanical Design Project I	PBL 3			Technical Thermodynamics II GÜ 1		
1	Electrical Engineering I: Direct Current Networks GÜ 2 and Electromagnetic Fields	Electrical Engineering II: Alternating Current GÜ 2 Networks and Basic Devices	Electrical Engineering III: Circuit Theory and		Production Engineering (part 2)				
5			Transients Circuit Theory	VL 3	Production Engineering II	VL 2			
6			Circuit Theory Circuit Theory	GŪ 2	Production Engineering II	HŪ 1			
7	Mathematics I	Fundamentals of Mechanical Engineering Design			Technical Thermodynamics I		Foundations of Management	Semiconductor Circuit Design	
3	Linear Algebra I VL 2	Fundamentals of Mechanical Engineering Design VL 2			Technical Thermodynamics I	VL 2	Introduction to Management VL 3	Semiconductor Circuit Design	VL
	Linear Algebra I GÜ 1	Fundamentals of Mechanical Engineering Design HÜ 2			Technical Thermodynamics I	HŪ 1	Management Tutorial GÜ 2	Semiconductor Circuit Design	GŪ 1
9	Linear Algebra I HŪ 1				Technical Thermodynamics I	GÜ 1			
10	Analysis I VL 2		Production Engineering (part 1)						
11	Analysis I         GÜ         1           Analysis I         HÜ         1		Production Engineering I	VL 2					
12	Nutry St. NU 1		Production Engineering I	HÜ 1					
13		Mechanics II: Mechanics of Materials	Mathematics III		Signals and Systems		Introduction to Control Systems	Bachelor Thesis	
14		Mechanics II VL 2	Analysis III	VL 2	Signals and Systems	VL 3	Introduction to Control Systems VL 2		
		Mechanics II GÜ 2	Analysis III	GŪ 1	Signals and Systems	GÜ 2	Introduction to Control Systems GÜ 2		
15	Mechanics I (Statics) Mechanics I VL 2	Mechanics II HÜ 2	Analysis III	HÜ 1					
16	Mechanics I         VL         2           Mechanics I         GÜ         2		Differential Equations 1	VL 2					
L7	Mechanics I HŪ 1		Differential Equations 1 Differential Equations 1	GÜ 1 HÜ 1					
18			Differential Equations 1	HU I					
19		Mathematics II			Mathematics IV		Measurement Technology for Mechanical Engineers	-	
		Linear Algebra II VL 2			Complex Functions	VL 2	Measurement 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	HÜ 1	Measurement Technology for Mechanical PR 2		
22	Fundamentals of Materials Science I VL 2	Analysis II VL 2	Engineering Mechanics III	VL 3	Differential Equations 2	VL 2	Engineering		
23	Physical and Chemical Basics of Materials Science VL 2	Analysis II HÜ 1	Engineering Mechanics III Engineering Mechanics III	GÜ 2 HÜ 1	Differential Equations 2	GÜ 1	Practical Course: Measurement and Control PR 2 Systems		
24		Analysis II GÜ 1	Engineering Mechanics in	HU I	Differential Equations 2	HŪ 1	Systems		
25	Computer Science for Engineers - Introduction and Overview				Computational Mechanics Computational Multibody Dynamics	IV 2	Simulation and Design of Mechatronic Systems Simulation and Design of Mechatronic Systems VL 2		
26	Computer Science for Engineers - Introduction VL 3				Computational Multibody Dynamics	GÜ 2	Simulation and Design of Mechatronic Systems VL 2 Simulation and Design of Mechatronic Systems HÜ 1		
27	and Overview	Computer Science for Engineers - Programming			Computational Stuctural Mechanics	IV 2	Simulation and Design of Mechatronic Systems PR 1		
8	Computer Science for Engineers - Introduction GÜ 2	Concepts, Data Handling & Communication							
29	and Overview	Computer Science for Engineers - Programming VL 3 Concepts, Data Handling & Communication							
		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							
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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.