## Course of Study Mechatronics (Study Cohort w1 Streit Compulsory Specialisation Compulsory Specialisation Compulsory Focus Computed Compulsory Focus Computed Compulsory Focus Compulsory Focus Co

Sample	course plan B Bachelor Mechatro	nics (MECBS)				
1	Procedural Programming	Electrical Engineering II: Alternating Current Networks	Mechanical Engineering: Design (part 1)	Mechanical Engineering: Design (part 2)	Technical Thermodynamics II	Electrical Machines and Actuators
2	Procedural Programming VL 1	and Basic Devices	Embodiment Design and 3D-CAD VL 2	Team Project Design Methodology PBL	2 Technical Thermodynamics II VL 2	Electrical Machines and Actuators VL 3
	Procedural Programming HŪ 1	Electrical Engineering II: Alternating Current VL 3	Mechanical Design Project I PBL 3	Mechanical Design Project II PBL	3 Technical Thermodynamics II HÜ 1	Electrical Machines and Actuators HÜ 2
3	Procedural Programming PR 2	Networks and Basic Devices			Technical Thermodynamics II GÜ 1	
4		Electrical Engineering II: Alternating Current GÜ 2 Networks and Basic Devices	Electrical Engineering III: Circuit Theory and	Production Engineering (part 2)		
5			Transients	Production Engineering II VL		
6			Circuit Theory         VL         3           Circuit Theory         GŪ         2	Production Engineering II HŪ	1	
			Circuit Theory GÜ 2			
7	Electrical Engineering I: Direct Current Networks and			Technical Thermodynamics I	Foundations of Management	Semiconductor Circuit Design
8	Electromagnetic Fields Electrical Engineering I: Direct Current Networks VL 3	Fundamentals of Mechanical Engineering Design VL 2		Technical Thermodynamics I VL Technical Thermodynamics I HŪ		Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GŪ 1
9	and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design HÜ 2		Technical Thermodynamics I HŪ Technical Thermodynamics I GŨ		Semiconductor Circuit Design GŪ 1
10	Electrical Engineering I: Direct Current Networks GÜ 2		Production Engineering (part 1)	Technical methodynamics 1 00	1	
	and Electromagnetic Fields		Production Engineering (part 1) Production Engineering I VL 2			
11			Production Engineering I HÜ 1			
12			······································			
13	Mathematics I	Mechanics II: Mechanics of Materials	Computer Engineering	Signals and Systems	Introduction to Control Systems	Embedded Systems
14	Linear Algebra I VL 2	Mechanics II VL 2	Computer Engineering VL 3	Signals and Systems VL	3 Introduction to Control Systems VL 2	Embedded Systems VL 3
	Linear Algebra I GÜ 1	Mechanics II GÜ 2	Computer Engineering GŪ 1	Signals and Systems GÜ	2 Introduction to Control Systems GÜ 2	Embedded Systems GÜ 1
15	Linear Algebra I HŪ 1	Mechanics II HÜ 2				
16	Analysis I VL 2					
17	Analysis I GÜ 1					
18	Analysis I HŪ 1					
19		Mathematics II	Mathematics III	Mathematics IV	Measurement Technology for Mechanical Engineers	Bachelor Thesis
20		Linear Algebra II VL 2	Analysis III VL 2	Complex Functions VL	2 Measurement Technology for Mechanical VL 2	
		Linear Algebra II GÜ 1	Analysis III GŪ 1	Complex Functions GÜ		
21	Mechanics I (Statics)	Linear Algebra II HÜ 1	Analysis III HÜ 1	Complex Functions HÜ	1 Measurement Technology for Mechanical HÜ 1	
22	Mechanics I VL 2	Analysis II VL 2	Differential Equations 1 VL 2	Differential Equations 2 VL		
23	Mechanics I GÜ 2 Mechanics I HÜ 1	Analysis II HÜ 1	Differential Equations 1 GŪ 1	Differential Equations 2 GÜ	Practical Course: Measurement and Control PR 2     Systems	
24	Mechanics I HŪ 1	Analysis II GÜ 1	Differential Equations 1 HÜ 1	Differential Equations 2 HŪ	1 3,500	
25				Mechanics IV (Oscillations, Analytical Mechanics,		
26				Multibody Systems, Numerical Mechanics) Mechanics IV VL	3	
27	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science (part 2)	Mechanics III (Dynamics)	Mechanics IV GÜ		
28	Fundamentals of Materials Science I VL 2	Fundamentals of Materials Science II VL 2	Mechanics III VL 3	Mechanics IV HŪ	1	
	Physical and Chemical Basics of Materials Science VL 2		Mechanics III GŪ 2			
29			Mechanics III HÜ 1			
30						
31						
32						
	Non-technical Courses for Bachelors (from catalogue) - 6LP					
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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.