Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w17)

Sample course plan B Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))
Specialisation Mechanical Engineering, Focus Mechatronics

LP	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk	Semester 5	Form	Hrs/wk	Semester 6	Form	Hrs/wk	Semester 7	Form	Hrs/wk
1	**Chemistry (GES)**			**Technical Thermodynamics I**			**Technical Thermodynamics II**			**Mechanical Engineering: Design (part 2)**			**Computer Engineering**			**Foundations of Management**			**Advanced Internship AIW/ GES**		
2	Chemistry I	VL	2										Computer Engineering	VL	3						
3	Chemistry II	VL	2	Technical Thermodynamics I	VL	2	Technical Thermodynamics II	VL	2	Team Project Design Methodology	PBL	2	Computer Engineering	UE	1	Introduction to Management	VL	3			
	Chemistry I	HÜ	1	Technical Thermodynamics I	HÜ	1	Technical Thermodynamics II	HÜ	1	Mechanical Design Project II	PBL	3				Management Tutorial	HÜ	2			
	Chemistry II	HÜ	1	Technical Thermodynamics I	UE	1	Technical Thermodynamics II	UE	1												
4										**Fundamentals of Materials Science (part 2)**											
5										Fundamentals of Materials Science II	VL	2									
6																					
7	**Linear Algebra**			**Mathematical Analysis**			**Mathematics III**			**Advanced Mechanical Engineering Design (part 2)**			**Introduction to Control Systems**			**Semiconductor Circuit Design**					
8	Linear Algebra	VL	4	Mathematical Analysis	VL	4	Analysis III	VL	2	Advanced Mechanical Engineering Design II	VL	2	Introduction to Control Systems	VL	2	Semiconductor Circuit Design	VL	3			
	Linear Algebra	HÜ	2	Mathematical Analysis	HÜ	2	Analysis III	UE	1	Advanced Mechanical Engineering Design II	HÜ	2	Introduction to Control Systems	UE	2	Semiconductor Circuit Design	UE	1			
	Linear Algebra	UE	2	Mathematical Analysis	UE	2	Analysis III	HÜ	1													
9							Differential Equations 1	VL	2	**Fluid Dynamics**											
10							Differential Equations 1	UE	1	Fluid Mechanics	VL	3									
11							Differential Equations 1	HÜ	1	Fluid Mechanics	HÜ	2									
12																					
13													**Measurement Technology for Mechanical and Process Engineers**			**Mathematics IV**					
14																Complex Functions	VL	2			
15	**Electrical Engineering I**			**Electrical Engineering II**			**Mechanics III (GES)**			**Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)**			Measurement Technology for Mechanical and Process Engineers	VL	2	Complex Functions	UE	1			
16	Electrical Engineering I	VL	3	Electrical Engineering II	VL	3	Mechanics III	HÜ	1							Complex Functions	HÜ	1			
17	Electrical Engineering I	UE	2	Electrical Engineering II	UE	2	Mechanics III	UE	2	Mechanics IV	VL	3	Measurement Technology for Mechanical and Process Engineers	HÜ	1	Differential Equations 2	VL	2			
18							Mechanics III	VL	3	Mechanics IV	UE	2				Differential Equations 2	UE	1			
										Mechanics IV	HÜ	1	Practical Course: Measurement and Control Systems	PR	2	Differential Equations 2	HÜ	1			
19													**Electrical Engineering III: Circuit Theory and Transients**			**Fundamentals of Production and Quality Management**			**Bachelor Thesis**		
20																					
21	**Mechanics I (GES)**			**Mechanics II (GES)**			**Mechanical Engineering: Design (part 1)**			**Signals and Systems**			Circuit Theory	VL	3	Production Process	VL	2			
22	Mechanics I	VL	2	Mechanics II	VL	2				Signals and Systems	VL	3									

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23	Mechanics I　　HÜ 3	Mechanics II　　HÜ 2	Embodiment Design　VL 2 and 3D-CAD Mechanical Design　PBL3 Project I	Signals and Systems　UE 2	Circuit Theory　　UE 2	Organization Quality Management　VL 2
24			**Fundamentals of Materials Science (part 1)** Fundamentals of　VL 2 Materials Science I			
25					**Simulation and Design of Mechatronic Systems**	
26						
27	**Programming in C** Programming in C　VL 1 Programming in C　PR 1	**Fundamentals of Mechanical Engineering (GES)** Fundamentals of　VL 2 Mechanical Engineering	Physical and Chemical　VL 2 Basics of Materials Science **Advanced Mechanical Engineering Design (part 1)**		Simulation and Design　VL 2 of Mechatronic Systems Simulation and Design　HÜ 1 of Mechatronic Systems	
28		Fundamentals of　UE 2 Mechanical Engineering	Advanced Mechanical　VL 2 Engineering Design I			
29	**Physics for Engineers (GES)**		Advanced Mechanical　HÜ 2 Engineering Design I		Simulation and Design　PR 1 of Mechatronic Systems	
30	Physics for Engineers　VL 2 Physics for Engineers　UE 1					
31						
32						

Nontechnical Complementary 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.