Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w18)

Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))
Specialisation Mechanical Engineering, Focus Aircraft Systems Engineering

#	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs/wk
1	**Chemistry**		**Electrical Engineering II: Alternating Current Networks and Basic Devices**		**Technical Thermodynamics II**		**Mechanical Engineering: Design (part 2)**		**Introduction to Control Systems**		**Foundations of Management**		**Advanced Internship AIW/ ES**	
2	Chemistry I	VL 2	Electrical Engineering II: Alternating	VL 3	Technical Thermodynamics II	VL 2	Team Project Design Methodology	PBL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 3	Advanced Internship AIW/ ES:	SE 1
3	Chemistry II	VL 2	Current Networks and Basic Devices		Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	PBL 3	Introduction to Control Systems	GÜ 2	Management Tutorial	GÜ 2	Preparation	
4	Chemistry I	HÜ 1	Electrical Engineering II: Alternating	GÜ 2	Technical Thermodynamics II	GÜ 1							Advanced Intenship AIW/ ES: Internship-	SE 1
5	Chemistry II	HÜ 1	Current Networks and Basic Devices				**Fundamentals of Materials Science (part 2)**						accompanying Seminar	
6							Fundamentals of Materials Science II	VL 2						
7	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**		**Fundamentals of Mechanical Engineering Design**		**Mathematics III**		**Advanced Mechanical Engineering Design (part 2)**		**Computer Engineering**		**Integrated Product Development and Lightweight Design**			
8	Electrical Engineering I: Direct Current	VL 3	Fundamentals of Mechanical Engineering	VL 2	Analysis III	VL 2	Advanced Mechanical Engineering	VL 2	Computer Engineering	VL 3	Integrated Product Development I	VL 2		
	Networks and Electromagnetic Fields		Design		Analysis III	GÜ 1	Design II		Computer Engineering	GÜ 1	Development of Lightweight Design	VL 2		
9	Electrical Engineering I: Direct Current	GÜ 2	Fundamentals of Mechanical Engineering	HÜ 1	Analysis III	HÜ 1	Advanced Mechanical Engineering	HÜ 2			Products			
10	Networks and Electromagnetic Fields		Design		Differential Equations 1	VL 2	Design II				CAE-Team Project	PBL 2		
11					Differential Equations 1	GÜ 1	**Fluid Dynamics**							
12					Differential Equations 1	HÜ 1	Fluid Mechanics	VL 3						
							Fluid Mechanics	HÜ 2						
13	**Mathematics I**		**Technical Thermodynamics I**						**Measurement Technology for Mechanical Engineers**		**Aeronautical Systems**			
14	Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2					Measurement Technology for Mechanical	VL 2	Air Transportation Systems	VL 2		
15	Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1	**Mechanics III (Hydrostatics, Kinematics, Kinetics I)**		**Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)**		Engineering		Fundamentals of Aircraft Systems	VL 2		
16	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1	Mechanics III	VL 3	Mechanics IV	VL 3	Measurement Technology for Mechanical	HÜ 1	Fundamentals of Aircraft Systems	GÜ 1		
17	Analysis I	VL 2			Mechanics III	GÜ 2	Mechanics IV	GÜ 2	Engineering		Air Transportation Systems	HÜ 1		
18	Analysis I	GÜ 1			Mechanics III	HÜ 1	Mechanics IV	HÜ 1	Practical Course: Measurement and	PR 2				
	Analysis I	HÜ 1							Control Systems					
19			**Mechanics II: Mechanics of Materials**						**Advanced Mechanical Design Project**		**Fundamentals of Production and Quality Management**		**Bachelor Thesis**	
20			Mechanics II	VL 2					Advanced Mechanical Design Project	PBL 4				
21	**Mechanics I (Statics)**		Mechanics II	GÜ 2	**Mechanical Engineering: Design (part 1)**		**Signals and Systems**				Production Process Organization	VL 2		
22	Mechanics I	VL 2	Mechanics II	HÜ 2	Embodiment Design and 3D-CAD	VL 2	Signals and Systems	VL 3			Quality Management	VL 2		
23	Mechanics I	GÜ 2			Mechanical Design Project I	PBL 3	Signals and Systems	GÜ 2						
24	Mechanics I	HÜ 1												
25			**Mathematics II**		**Fundamentals of Materials Science (part 1)**				**Simulation and Design of Mechatronic Systems**					
26			Linear Algebra II	VL 2	Fundamentals of Materials Science I	VL 2			Simulation and Design of Mechatronic	VL 2				
27	**Programming in C**		Linear Algebra II	GÜ 1	Physical and Chemical Basics of Materials	VL 2			Systems					
28	Programming in C	VL 1	Linear Algebra II	HÜ 1	Science				Simulation and Design of Mechatronic	HÜ 1				
	Programming in C	PR 1	Analysis II	VL 2					Systems					
29	**Physics for Engineers (AIW)**		Analysis II	HÜ 1	**Advanced Mechanical Engineering Design (part 1)**				Simulation and Design of Mechatronic	PR 1				
30	Physics for Engineers	VL 2	Analysis II	GÜ 1	Advanced Mechanical Engineering	VL 2			Systems					
	Physics for Engineers	GÜ 1			Design I									
31					Advanced Mechanical Engineering	HÜ 2								
32					Design I									

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.