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

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)**		**Computer Engineering**		**Foundations of Management**		**Advanced Internship AIW/ GES**	
2	Chemistry I	VL 2			Technical Thermodynamics II	VL 2	Team Project Design Methodology	PBL 2	Computer Engineering	VL 3	Introduction to Management	VL 3		
3	Chemistry II	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	PBL 3	Computer Engineering	GÜ 1	Management Tutorial	HÜ 2		
4	Chemistry I	HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2	Technical Thermodynamics II	GÜ 1								
5	Chemistry II	HÜ 1					**Fundamentals of Materials Science (part 2)**							
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)**		**Introduction to Control Systems**		**Integrated Product Development and Lightweight Design**			
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Fundamentals of Mechanical Engineering Design	VL 2	Analysis III	VL 2	Advanced Mechanical Engineering Design II	VL 2	Introduction to Control Systems	VL 2	Integrated Product Development I	VL 2		
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Fundamentals of Mechanical Engineering Design	HÜ 1	Analysis III	GÜ 1	Advanced Mechanical Engineering Design II	HÜ 2	Introduction to Control Systems	GÜ 2	Development of Lightweight Design Products	VL 2		
10					Analysis III	HÜ 1					CAE-Team Project	PBL 2		
11					Differential Equations 1	VL 2	**Fluid Dynamics**							
12					Differential Equations 1	GÜ 1	Fluid Mechanics	VL 3						
13	**Mathematics I**		**Technical Thermodynamics I**		Differential Equations 1	HÜ 1	Fluid Mechanics	HÜ 2						
14	Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2					**Measurement Technology for Mechanical and Process Engineers**		**Aeronautical Systems**			
15	Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1					Measurement Technology for Mechanical and Process Engineers	VL 2	Air Transportation Systems	VL 2		
16	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1	**Mechanics III (Hydrostatics, Kinematics, Kinetics I)**		**Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)**		Measurement Technology for Mechanical and Process Engineers	HÜ 1	Fundamentals of Aircraft Systems	VL 2		
17	Analysis I	VL 2			Mechanics III	VL 3	Mechanics IV	VL 3			Fundamentals of Aircraft Systems	GÜ 1		
18	Analysis I	GÜ 1			Mechanics III	GÜ 2	Mechanics IV	GÜ 2	Practical Course: Measurement and Control Systems	PR 2	Air Transportation Systems	HÜ 1		
19	Analysis I	HÜ 1	**Mechanics II: Mechanics of Materials**		Mechanics III	HÜ 1	Mechanics IV	HÜ 1	**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 Systems	VL 2				
27	**Programming in C**		Linear Algebra II	GÜ 1	Physical and Chemical Basics of Materials Science	VL 2			Simulation and Design of Mechatronic Systems	HÜ 1				
28	Programming in C	VL 1	Linear Algebra II	HÜ 1					Simulation and Design of Mechatronic Systems	PR 1				
29	Programming in C	PR 1	Analysis II	VL 2	**Advanced Mechanical Engineering Design (part 1)**									
30	**Physics for Engineers (AIW)**		Analysis II	HÜ 1	Advanced Mechanical Engineering Design I	VL 2								
	Physics for Engineers	VL 2	Analysis II	GÜ 1	Advanced Mechanical Engineering Design I	HÜ 2								
	Physics for Engineers	GÜ 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.