

# Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w19)

Sample course plan C Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))

Specialisation Mechanical Engineering, Focus Aircraft Systems Engineering

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

Non-technical 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.

