

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

Sample course plan C Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))
Specialisation Mechanical Engineering, Focus Aircraft Systems Engineering

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	Form	Semester 2	Form	Semester 3	Form	Semester 4	Form	Semester 5	Form	Semester 6	Form	Semester 7	Form						
1	Chemistry (GES)	VL 2	Technical Thermodynamics I	VL 2	Technical Thermodynamics II	VL 2	Mechanical Engineering: Design (part 2)	PBL2	Computer Engineering	VL 3	Foundations of Management	VL 3	Advanced Internship AIW/ GES							
2															Chemistry I	Technical Thermodynamics I	Technical Thermodynamics II	Team Project Design Methodology	Computer Engineering UE 1	Introduction to Management
3															Chemistry II	Technical Thermodynamics I	Technical Thermodynamics II	Mechanical Design Project II		Management Tutorial
4															Chemistry I	Technical Thermodynamics I	Technical Thermodynamics II			
5															Chemistry II	Technical Thermodynamics I	Technical Thermodynamics II			
6																				
7	Linear Algebra	VL 4	Mathematical Analysis	VL 4	Mathematics III	VL 2	Advanced Mechanical Engineering Design (part 2)	VL 2	Introduction to Control Systems	VL 2	Integrated Product Development and Lightweight Design	VL 2								
8															Linear Algebra	Mathematical Analysis	Analysis III	Advanced Mechanical Engineering Design II	Introduction to Control Systems	Integrated Product Development I
9															Linear Algebra	Mathematical Analysis	Analysis III	Advanced Mechanical Engineering Design II	Introduction to Control Systems	Development of Lightweight Design Products
10															Linear Algebra	Mathematical Analysis	Differential Equations 1			CAE-Team Project
11																	Differential Equations 1			
12																	Differential Equations 1			
13	Electrical Engineering I	VL 3	Electrical Engineering II	VL 3	Mechanics III (GES)	HÜ 1	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)	VL 3	Measurement Technology for Mechanical and Process Engineers	VL 2	Aeronautical Systems	VL 2								
14															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical and Process Engineers	Fundamentals of Aircraft Systems
15															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical and Process Engineers	Fundamentals of Aircraft Systems
16															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical and Process Engineers	Air Transportation Systems
17															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical and Process Engineers	
18															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical and Process Engineers	
19																				
20																				
21	Mechanics I (GES)	VL 2	Mechanics II (GES)	VL 2	Mechanical Engineering: Design (part 1)		Signals and Systems	VL 3	Advanced Mechanical Design Project	PBL4	Advanced Materials	VL 2	Bachelor Thesis							
22															Mechanics I	Mechanics II	Design Project	Advanced Materials		

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