

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

Sample course plan B 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	<b>Chemistry (GES)</b>	VL 2	<b>Technical Thermodynamics I</b>	VL 2	<b>Technical Thermodynamics II</b>	VL 2	<b>Mechanical Engineering: Design (part 2)</b>	PBL2	<b>Computer Engineering</b>	VL 3	<b>Foundations of Management</b>	VL 3	<b>Advanced Internship AIW/ GES</b>	UE 1						
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	Computer Engineering UE 1	Management Tutorial
4															Chemistry I	Technical Thermodynamics I	Technical Thermodynamics II			
5															Chemistry II	Technical Thermodynamics I	Technical Thermodynamics II			
6																				
7	<b>Linear Algebra</b>	VL 4	<b>Mathematical Analysis</b>	VL 4	<b>Mathematics III</b>	VL 2	<b>Advanced Mechanical Engineering Design (part 2)</b>	VL 2	<b>Introduction to Control Systems</b>	VL 2	<b>Integrated Product Development and Lightweight Design</b>	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	<b>Electrical Engineering I</b>	VL 3	<b>Electrical Engineering II</b>	VL 3	<b>Mechanics III (GES)</b>	HÜ 1	<b>Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)</b>	VL 3	<b>Measurement Technology for Mechanical Engineers</b>	VL 2	<b>Aeronautical Systems</b>	VL 2								
14															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical Engineering	Fundamentals of Aircraft Systems
15															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical Engineering	Fundamentals of Aircraft Systems
16															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical Engineering	Air Transportation Systems
17															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical Engineering	Air Transportation Systems
18															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical Engineering	Air Transportation Systems
19																				
20																				
21	<b>Mechanics I (GES)</b>	VL 2	<b>Mechanics II (GES)</b>	VL 2	<b>Mechanical Engineering: Design (part 1)</b>	VL 2	<b>Signals and Systems</b>	VL 3	<b>Advanced Mechanical Design Project</b>	PBL4	<b>Fundamentals of Production and Quality Management</b>	VL 2	<b>Bachelor Thesis</b>							
22															Mechanics I	Mechanics II	Embodiment Design	Signals and Systems	Advanced Mechanical Design Project	Production Process
23															Mechanics I	Mechanics II	Embodiment Design	Signals and Systems	Advanced Mechanical Design Project	Organization

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