

Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w16)

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/hrs	Semester 2	Form/hrs	Semester 3	Form/hrs	Semester 4	Form/hrs	Semester 5	Form/hrs	Semester 6	Form/hrs	Semester 7	Form/hrs/wk					
1	Chemistry (GES)	VL 2	Fundamentals of Mechanical Engineering Design	VL 2	Technical Thermodynamics II	VL 2	Mechanical Engineering: Design (part 2)	PBL2	Computer Engineering	VL 3	Foundations of Management	VL 3	Advanced Internship GES						
2														Chemistry I	Fundamentals of Mechanical Engineering Design	Technical Thermodynamics II	Team Project Design Methodology	Computer Engineering	Introduction to Management
3														Chemistry II	Fundamentals of Mechanical Engineering Design	Technical Thermodynamics II	Mechanical Design Project II	Computer Engineering	Management Tutorial
4														Chemistry I	Fundamentals of Mechanical Engineering Design	Technical Thermodynamics II	Fundamentals of Materials Science (part 2)		
5														Chemistry II	Fundamentals of Mechanical Engineering Design	Technical Thermodynamics II	Fundamentals of Materials Science II		
6																			
7																			
8	Linear Algebra	VL 4	Technical Thermodynamics I	VL 2	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							
9													Linear Algebra	Technical Thermodynamics I	Analysis III	Advanced Mechanical Engineering Design II	Introduction to Control Systems	Integrated Product Development I	
10													Linear Algebra	Technical Thermodynamics I	Analysis III	Advanced Mechanical Engineering Design II	Introduction to Control Systems	Development of Lightweight Design Products	
11													Linear Algebra	Technical Thermodynamics I	Differential Equations 1	Fluid Dynamics	Fluid Mechanics	CAE-Team Project	
12															Differential Equations 1	Fluid Mechanics			
13															Differential Equations 1	Fluid Mechanics			
14																			
15	Electrical Engineering I	VL 3	Mathematical Analysis	VL 4	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							
16													Electrical Engineering I	Mathematical Analysis	Mechanics III	Mechanics IV	Measurement Technology for Mechanical and Process Engineers	Fundamentals of Aircraft Systems	
17													Electrical Engineering I	Mathematical Analysis	Mechanics III	Mechanics IV	Measurement Technology for Mechanical and Process Engineers	Fundamentals of Aircraft Systems	
18													Electrical Engineering I	Mathematical Analysis	Mechanics III	Mechanics IV	Measurement Technology for Mechanical and Process Engineers	Air Transportation Systems	
19																			
20																			
21	Mechanics I (GES)	VL 2	Electrical Engineering II	VL 3	Mechanical Engineering: Design (part 1)	VL 2	Signals and Systems	VL 3	Advanced Mechanical Design Project	PBL4	Fundamentals of Production and Quality Management	VL 2							
22													Mechanics I	Electrical Engineering II	Embodiment Design and 3D-CAD	Signals and Systems	Advanced Mechanical Design Project	Production Process Organization	
23													Mechanics I	Electrical Engineering II	Mechanical Design	Signals and Systems		Quality Management	

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