

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

Sample course plan A 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													
3															Chemistry II		Fundamentals of Mechanical Engineering Design		Technical Thermodynamics II		Team Project Design Methodology		Computer Engineering		Introduction to Management			
4															Chemistry I	HÜ 1			Technical Thermodynamics II	HÜ 1	Mechanical Design Project II		Computer Engineering	UE 1	Management Tutorial	HÜ 2		
5															Chemistry II	HÜ 1	Fundamentals of Mechanical Engineering Design	HÜ 2	Technical Thermodynamics II	UE 1	Fundamentals of Materials Science (part 2)							
6																			Technical Thermodynamics II		Fundamentals of Materials Science II	VL 2						
7																					Advanced Mechanical Engineering Design (part 2)							
8	Linear Algebra	VL 4	Technical Thermodynamics I	VL 2	Mathematics III	VL 2	Advanced Mechanical Engineering Design II	VL 2	Introduction to Control Systems	VL 2	Integrated Product Development and Lightweight Design	VL 2	Advanced Internship GES															
9															Linear Algebra		Technical Thermodynamics I		Analysis III	UE 1	Advanced Mechanical Engineering Design II		Introduction to Control Systems		Integrated Product Development I			
10															Linear Algebra	HÜ 2			Analysis III	HÜ 1	Advanced Mechanical Engineering Design II	HÜ 2	Introduction to Control Systems	UE 2	Development of Lightweight Design Products	VL 2		
11															Linear Algebra	UE 2	Technical Thermodynamics I	HÜ 1	Differential Equations 1	VL 2					CAE-Team Project	PBL2		
12																	Technical Thermodynamics I	UE 1	Differential Equations 1	UE 1	Fluid Dynamics							
13					Differential Equations 1	HÜ 1	Fluid Mechanics	VL 3																				
14							Fluid Mechanics	HÜ 2																				
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	Advanced Internship GES															
16															Electrical Engineering I	HÜ 2	Mechanics III	UE 1	Mechanics IV	UE 2	Measurement Technology for Mechanical and Process Engineers		Fundamentals of Aircraft Systems	VL 2				
17															Electrical Engineering I	UE 2	Mathematical Analysis	UE 2	Mechanics III	VL 3	Mechanics IV	UE 2	Measurement Technology for Mechanical and Process Engineers	HÜ 1	Fundamentals of Aircraft Systems	UE 1		
18																			Mechanics III		Mechanics IV	HÜ 1	Practical Course: Measurement and Control Systems	PR 2	Air Transportation Systems	HÜ 1		
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	Electrical Machines	VL 3	Bachelor Thesis															
22															Electrical Engineering II	UE 2	Embodiment Design and 3D-CAD	VL 2	Signals and Systems	HÜ 1	Advanced Mechanical Design Project		Electrical Machines	HÜ 2				
23															Electrical Engineering II	UE 2	Mechanical Design	TT 3	Signals and Systems									

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	Physics for Engineers (GES)		Advanced Mechanical Engineering Design I VL 2				
30	Physics for Engineers VL 2		Advanced Mechanical Engineering Design I HÜ 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.