

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

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	FormHrs	Semester 2	FormHrs	Semester 3	FormHrs	Semester 4	FormHrs	Semester 5	FormHrs	Semester 6	FormHrs	Semester 7	FormHrs/wk
1	Chemistry (GES) Chemistry I Chemistry II Chemistry I Chemistry II	VL 2 VL 2 HÜ 1 HÜ 1	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	VL 2 VL 2 HÜ 1 UE 1	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 VL 2 HÜ 1 UE 1	Mechanical Engineering: Design (part 2) Team Project Design Methodology Mechanical Design Project II	PBL2 PBL3	Computer Engineering Computer Engineering Computer Engineering	VL 3 UE 1	Foundations of Management Introduction to Management Management Tutorial	VL 3 HÜ 2	Advanced Internship GES	
2														
3														
4														
5														
6	Linear Algebra Linear Algebra Linear Algebra Linear Algebra	VL 4 HÜ 2 UE 2	Mathematical Analysis Mathematical Analysis Mathematical Analysis Mathematical Analysis	VL 4 HÜ 2 UE 2	Mathematics III Analysis III Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II	VL 2 HÜ 2	Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems	VL 2 UE 2	Integrated Product Development and Lightweight Design Integrated Product Development I Development of Lightweight Design Products CAE-Team Project	VL 2 VL 2 PBL2	Bachelor Thesis	
7														
8														
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10														
11														
12														
13														
14														
15	Electrical Engineering I Electrical Engineering I Electrical Engineering I	VL 3 UE 2	Electrical Engineering II Electrical Engineering II Electrical Engineering II	VL 3 UE 2	Mechanics III (GES) Mechanics III Mechanics III Mechanics III	HÜ 1 UE 2 VL 3	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV Mechanics IV Mechanics IV	VL 3 UE 2 HÜ 1	Measurement Technology for Mechanical and Process Engineers Measurement Technology for Mechanical and Process Engineers Measurement Technology for Mechanical and Process Engineers Practical Course: Measurement and Control Systems	VL 2 HÜ 1 PR 2	Aeronautical Systems Air Transportation Systems Fundamentals of Aircraft Systems Fundamentals of Aircraft Systems Air Transportation Systems	VL 2 VL 2 UE 1 HÜ 1	Bachelor Thesis	
16														
17														
18														
19														
20														
21	Mechanics I (GES) Mechanics I	VL 2	Mechanics II (GES) Mechanics II	VL 2	Mechanical Engineering: Design (part 1) Embodiment Design and	VL 2	Signals and Systems Signals and Systems	VL 3	Advanced Mechanical Design Project Advanced Mechanical Design Project	PBL4	Electrical Machines and Actuators Electrical Machines and Actuators Electrical Machines and	VL 3 HÜ 2	Bachelor Thesis	
22														
23														

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