

Course of Study General Engineering Science (German program) (Study Cohort w14)

Sample course plan C Bachelor General Engineering Science (German program) (AIWBS)
Specialisation Mechanical Engineering, Focus Aircraft Systems Engineering

Legend:

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

LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II		Mechanical Engineering: Design (part 2)		Introduction to Control Systems		Foundations of Management	
2	Physics for Engineers	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3 UE 1	Technical Thermodynamics II VL 2 HÜ 1 UE 1	Technical Thermodynamics II VL 2 HÜ 1 UE 1	Team Project Design Methodology POL 2 TT 3	Mechanical Design Project II TT 3	Introduction to Control Systems VL 2 UE 2	Introduction to Control Systems VL 2 UE 2	Introduction to Management VL 4 POL 2	Project Entrepreneurship POL 2	
3	Physics for Engineers	UE 1										
4												
5	Chemistry											
6	Chemistry I	VL 2	Fundamentals of Mechanical Engineering Design VL 2 HÜ 2	Computer Engineering VL 3 UE 1	Computer Engineering VL 3 UE 1	Advanced Mechanical Engineering Design II VL 2 HÜ 2	Advanced Mechanical Engineering Design II VL 2 HÜ 2	Measurement Technology for Mechanical and Process Engineers VL 2 HÜ 1	Measurement Technology for Mechanical and Process Engineers VL 2 HÜ 1	Integrated Product Development and Lightweight Design VL 2 VL 2 POL 2	Integrated Product Development I VL 2 Development of Lightweight Design VL 2 Products POL 2	
7	Chemistry II	VL 2										
8	Chemistry I	HÜ 1										
9	Chemistry II	HÜ 1										
10			Technical Thermodynamics I VL 2 HÜ 1 UE 1	Mathematics III VL 2 UE 1 HÜ 1	Analysis III VL 2 UE 1 HÜ 1	Differential Equations I VL 2 UE 1 HÜ 1	Fluid Dynamics VL 3 HÜ 1	Simulation of Dynamic Systems and Reliability VL 2 VL 2 UE 1 UE 1	Simulation of Dynamic Systems VL 2 UE 1	Aeronautical Systems VL 2 VL 2 UE 1 HÜ 1	Air Transportation Systems VL 2 Fundamentals of Aircraft Systems VL 2 Fundamentals of Aircraft Systems UE 1 Air Transportation Systems HÜ 1	
11	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields											
12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3										
13	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	UE 2										
14			Mechanics II: Mechanics of Materials VL 2 UE 2	Mechanics III (Hydrostatics, Kinematics, Kinetics I) VL 3 UE 2 HÜ 1	Analysis III VL 2 UE 1 HÜ 1	Differential Equations I VL 2 UE 1 HÜ 1	Fluid Dynamics VL 3 HÜ 1	Simulation of Dynamic Systems and Reliability VL 2 VL 2 UE 1 UE 1	Simulation of Dynamic Systems VL 2 UE 1	Aeronautical Systems VL 2 VL 2 UE 1 HÜ 1	Air Transportation Systems VL 2 Fundamentals of Aircraft Systems VL 2 Fundamentals of Aircraft Systems UE 1 Air Transportation Systems HÜ 1	
15	Mathematics I											
16	Linear Algebra I	VL 2										
17	Linear Algebra I	UE 1										
18	Linear Algebra I	HÜ 1	Mathematics II VL 2 UE 1 HÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I) VL 3 UE 2 HÜ 1	Analysis III VL 2 UE 1 HÜ 1	Differential Equations I VL 2 UE 1 HÜ 1	Fluid Dynamics VL 3 HÜ 1	Simulation of Dynamic Systems and Reliability VL 2 VL 2 UE 1 UE 1	Simulation of Dynamic Systems VL 2 UE 1	Aeronautical Systems VL 2 VL 2 UE 1 HÜ 1	Air Transportation Systems VL 2 Fundamentals of Aircraft Systems VL 2 Fundamentals of Aircraft Systems UE 1 Air Transportation Systems HÜ 1	
19	Analysis I	VL 2										
20	Analysis I	UE 1										
21	Analysis I	HÜ 1										
22			Mathematics II VL 2 UE 1 HÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I) VL 3 UE 2 HÜ 1	Analysis III VL 2 UE 1 HÜ 1	Differential Equations I VL 2 UE 1 HÜ 1	Fluid Dynamics VL 3 HÜ 1	Simulation of Dynamic Systems and Reliability VL 2 VL 2 UE 1 UE 1	Simulation of Dynamic Systems VL 2 UE 1	Aeronautical Systems VL 2 VL 2 UE 1 HÜ 1	Air Transportation Systems VL 2 Fundamentals of Aircraft Systems VL 2 Fundamentals of Aircraft Systems UE 1 Air Transportation Systems HÜ 1	
23	Mechanics I (Statics)											
24	Mechanics I	VL 2										
25	Mechanics I	UE 2										
26	Mechanics I	HÜ 1	Mathematics II VL 2 UE 1 HÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I) VL 3 UE 2 HÜ 1	Analysis III VL 2 UE 1 HÜ 1	Differential Equations I VL 2 UE 1 HÜ 1	Fluid Dynamics VL 3 HÜ 1	Simulation of Dynamic Systems and Reliability VL 2 VL 2 UE 1 UE 1	Simulation of Dynamic Systems VL 2 UE 1	Aeronautical Systems VL 2 VL 2 UE 1 HÜ 1	Air Transportation Systems VL 2 Fundamentals of Aircraft Systems VL 2 Fundamentals of Aircraft Systems UE 1 Air Transportation Systems HÜ 1	
27												
28												
29												
30			Mathematics II VL 2 UE 1 HÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I) VL 3 UE 2 HÜ 1	Analysis III VL 2 UE 1 HÜ 1	Differential Equations I VL 2 UE 1 HÜ 1	Fluid Dynamics VL 3 HÜ 1	Simulation of Dynamic Systems and Reliability VL 2 VL 2 UE 1 UE 1	Simulation of Dynamic Systems VL 2 UE 1	Aeronautical Systems VL 2 VL 2 UE 1 HÜ 1	Air Transportation Systems VL 2 Fundamentals of Aircraft Systems VL 2 Fundamentals of Aircraft Systems UE 1 Air Transportation Systems HÜ 1	
31												
32												
33												
			Programming in C		Materials Science		Advanced Materials VL 2 VL 2 HÜ 2		Advanced Mechanical Design Project TT 4		Bachelor Thesis	

34	Programming in C	VL	1	Advanced Mechanical Engineering Design (part 1)
	Programming in C	PR	1	
35	Physics for Engineers (part 2)			
36	Physics-Lab for ET/IW-Engineers	PR	1	Advanced Mechanical Engineering Design I
				Advanced Mechanical Engineering Design I
				VL 2
				HÜ 2

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.