

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w19)

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation Mechanical Engineering, Focus Aircraft Systems Engineering

1	Chemistry			Electrical Engineering II: Alternating Current Networks and Basic Devices			Technical Thermodynamics II			Signals and Systems			Introduction to Control Systems			Foundations of Management			Advanced Internship AIW/ ES													
2	Chemistry I	VL	2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL	3	Technical Thermodynamics II	VL	2	Signals and Systems	VL	3	Introduction to Control Systems	VL	2	Introduction to Management	VL	3	Advanced Internship AIW/ ES: Preparation	SE	1											
3	Chemistry II	VL	2	Electrical Engineering II: Alternating Current Networks and Basic Devices			Technical Thermodynamics II	HÜ	1	Signals and Systems	GÜ	2	Introduction to Control Systems	GÜ	2	Management Tutorial	GÜ	2	Advanced Intenship AIW/ ES: Internship-accompanying Seminar	SE	1											
4	Chemistry I	HÜ	1	Electrical Engineering II: Alternating Current Networks and Basic Devices			Technical Thermodynamics II	GÜ	1																							
5	Chemistry II	HÜ	1																													
6																																
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields			Fundamentals of Mechanical Engineering Design			Mathematics III			Fluid Dynamics			Computer Engineering			Integrated Product Development and Lightweight Design																
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL	3	Fundamentals of Mechanical Engineering Design	VL	2	Analysis III	VL	2	Fluid Mechanics	VL	3	Computer Engineering	VL	3	Integrated Product Development I	VL	2														
9							Analysis III	GÜ	1	Fluid Mechanics	HÜ	2	Computer Engineering	GÜ	1	Development of Lightweight Design Products	VL	2														
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ	2	Fundamentals of Mechanical Engineering Design	HÜ	2	Analysis III	HÜ	1																							
11							Differential Equations 1	VL	2																							
12							Differential Equations 1	GÜ	1							CAE-Team Project	PBL	2														
13							Differential Equations 1	HÜ	1																							
14	Mathematics I			Technical Thermodynamics I			Mechanics III (Dynamics)			Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)			Measurement Technology for Mechanical Engineers			Aeronautical Systems																
15	Linear Algebra I	VL	2	Technical Thermodynamics I	VL	2																										
16	Linear Algebra I	GÜ	1	Technical Thermodynamics I	HÜ	1																										
17	Linear Algebra I	HÜ	1	Technical Thermodynamics I	GÜ	1																										
18	Analysis I	VL	2																Mechanics III	VL	3	Mechanics IV	VL	3	Measurement Technology for Mechanical Engineering	VL	2	Air Transportation Systems	VL	2		
19	Analysis I	GÜ	1																Mechanics III	GÜ	2	Mechanics IV	GÜ	2	Measurement Technology for Mechanical Engineering	HÜ	1	Fundamentals of Aircraft Systems	VL	2		
20	Analysis I	HÜ	1				Mechanics III	HÜ	1	Mechanics IV	HÜ	1	Engineering			Fundamentals of Aircraft Systems	GÜ	1														
21	Mechanics I (Statics)			Mechanics II: Mechanics of Materials			Mechanical Engineering: Design (part 1)			Mechanical Engineering: Design (part 2)			Advanced Mechanical Design Project			Fundamentals of Production and Quality Management																
22	Mechanics I	VL	2																													
23	Mechanics I	GÜ	2																													
24	Mechanics I	HÜ	1																													
25																																
26																																
27	Programming in C			Mathematics II			Fundamentals of Materials Science (part 1)			Advanced Mechanical Engineering Design (part 2)			Computational Fluid Dynamics I			Bachelor Thesis																
28	Programming in C	VL	1																													
29	Programming in C	PR	1																													
30	Physics for Engineers (AIW)																															
31	Physics for Engineers	VL	2																													
32	Physics for Engineers	GÜ	1																													

Non-technical 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.

