

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

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

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	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7
1	Chemistry Chemistry I Chemistry II Chemistry I Chemistry II	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	Mechanical Engineering: Design (part 2) Team Project Design Methodology Mechanical Design Project II Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II	Computer Engineering Computer Engineering Computer Engineering Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems	Foundations of Management Introduction to Management Management Tutorial	Advanced Internship AIW/GES
2							
3							
4							
5							
6							
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design	Mathematics III Analysis III Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	Fluid Dynamics Fluid Mechanics Fluid Mechanics	Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems	MED II: Introduction to Physiology Introduction to Physiology	BIO I: Experimental Methods in Biomechanics Experimental Methods in Biomechanics
8							
9							
10							
11							
12							
13	Mathematics I Linear Algebra I Linear Algebra I Linear Algebra I Analysis I Analysis I Analysis I	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	Mechanics III (Hydrostatics, Kinematics, Kinetics I) Mechanics III Mechanics III Mechanics III	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV Mechanics IV Mechanics IV	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	Electrical Machines and Actuators Electrical Machines and Actuators Electrical Machines and Actuators	Bachelor Thesis
14							
15							
16							
17							
18							
19	Mechanics II: Mechanics of Materials Mechanics II			Numerical Mathematics I Numerical Mathematics I			
20							
21	Mechanics I (Statics)		Mechanical Engineering:	Signals and Systems			

22	Mechanics I	VL 2	Mechanics II	UE 2	Design (part 1)	Signals and Systems	VL 3	Numerical Mathematics I	UE 2
23	Mechanics I	UE 2	Mechanics II	HÜ 2	Embodiment Design and 3D-CAD	Signals and Systems	UE 2		
	Mechanics I	HÜ 1			Mechanical Design Project I				
24									
25									
26									
27	Programming in C								
	Programming in C	VL 1							
	Programming in C	PR 1							
28									
29	Physics for Engineers (AIW)								
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.

