

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w22)

Legend:

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

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

Specialisation: Biomedical Engineering	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs/wk		
1	Chemistry Chemistry I+II Chemistry I+II	VL 4	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	VL 3	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2	Signals and Systems Signals and Systems Signals and Systems	VL 3	Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems	VL 2	Foundations of Management Introduction to Management Management Tutorial	VL 3	Advanced Internship AIW/ ES Advanced Internship AIW/ ES: Preparation Advanced Internship AIW/ ES: Internship-accompanying Seminar	
2		HÜ 2		HÜ 1		HÜ 1		GÜ 2		GÜ 2		GÜ 2		SE 1
3				GÜ 2		GÜ 1		GÜ 2		GÜ 2				SE 1
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	VL 3	Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design	VL 2	Mathematics III Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	VL 2	Fluid Dynamics Fluid Mechanics Fluid Mechanics	VL 3	Numerical Mathematics I Numerical Mathematics I Numerical Mathematics I	VL 2	Introduction into Medical Technology and Systems Introduction into Medical Technology and Systems Introduction into Medical Technology and Systems Introduction into Medical Technology and Systems	VL 2		
8		HÜ 2		HÜ 1		HÜ 2		GÜ 2		GÜ 2		PS 2		
9		GÜ 2		HÜ 2		VL 2		VL 2		VL 2		HÜ 1		
10						GÜ 1		GÜ 1		VL 3		VL 2		
11						HÜ 1		HÜ 1		HÜ 2		VL 2		
12														
13	Mathematics I Mathematics I Mathematics I	VL 4	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	VL 2	Engineering Mechanics III (Dynamics) Engineering Mechanics III Engineering Mechanics III Engineering Mechanics III	VL 3	MED I: Introduction to Anatomy Introduction to Anatomy	VL 2	Heat Transfer Heat Transfer Heat Transfer	VL 3	MED II: Introduction to Physiology Introduction to Physiology	VL 2		
14		HÜ 2		HÜ 1		GÜ 2		GÜ 2		HÜ 2				
15		GÜ 2		GÜ 1		HÜ 1		VL 2		VL 2				
16														
17														
18														
19	Computer Science for Engineers - Introduction and Overview Computer Science for Engineers - Introduction and Overview Computer Science for Engineers - Introduction and Overview	VL 3	Mathematics II Mathematics II Mathematics II	VL 4	Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD Introduction and Practical Training Mechanical Design Project I	VL 2	MED I: Introduction to Radiology and Radiation Therapy Introduction to Radiology and Radiation Therapy	VL 2	Measurement Technology for Mechanical Engineers Measurement Technology for Mechanical Engineers Engineering Measurement Technology for Mechanical Engineers Practical Course: Measurement and Control Systems	VL 2	Computer Science for Engineers - Programming Concepts, Data Handling & Communication Computer Science for Engineers - Programming Concepts, Data Handling & Communication Computer Science for Engineers - Programming Concepts, Data Handling & Communication	VL 3	Bachelor Thesis	
20		HÜ 2		HÜ 2		GÜ 2		GÜ 2		HÜ 1		GÜ 2		
21		GÜ 2		GÜ 2		PBL 3		IV 2		IV 2		PR 2		
22														
23														
24														
25														
26	Engineering Mechanics I (Stereostatics) Engineering Mechanics I Engineering Mechanics I Engineering Mechanics I	VL 2	Engineering Mechanics II (Elastostatics) Engineering Mechanics II Engineering Mechanics II Engineering Mechanics II	VL 2	Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I Physical and Chemical Basics of Materials Science	VL 2	MED II: Introduction to Biochemistry and Molecular Biology Introduction to Biochemistry and Molecular Biology	VL 2	BIO I: Experimental Methods in Biomechanics Experimental Methods in Biomechanics	VL 2				
27		GÜ 2		GÜ 2		PBL 2		PBL 2		VL 2				
28		HÜ 1		HÜ 2		PBL 3		PBL 3		VL 2				
29														
30														
31														
32														

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.

