

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

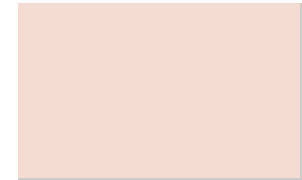
Sample course plan T Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))
Specialisation Computer Science

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	Form	Semester 2	Form	Semester 3	Form	Semester 4	Form	Semester 5	Form	Semester 6	Form	Semester 7	Form					
1	Chemistry		Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II		Objectoriented Programming, Algorithms and Data Structures		Introduction to Control Systems		Foundations of Management		Advanced Internship GES						
2		Chemistry I		VL 2		Technical Thermodynamics II		VL 2		Objectoriented Programming, Algorithms and Data Structures		VL 4		Introduction to Control Systems	VL 2	Introduction to Management	VL 3		
3		Chemistry II		VL 2		Electrical Engineering II: Alternating Current Networks and Basic Devices		VL 3		Technical Thermodynamics II		HÜ 1		Objectoriented Programming, Algorithms and Data Structures	UE 2	Introduction to Control Systems	UE 2	Management Tutorial	HÜ 2
4		Chemistry I		HÜ 1		Electrical Engineering II: Alternating Current Networks and Basic Devices		UE 2		Technical Thermodynamics II		UE 1		Objectoriented Programming, Algorithms and Data Structures	UE 1				
5		Chemistry II		HÜ 1															
6																			
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Fundamentals of Mechanical Engineering Design		Mathematics III		Signals and Systems		Numerical Mathematics I		Operating Systems								
8		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		VL 3		Fundamentals of Mechanical Engineering Design		VL 2		Analysis III		VL 2	Signals and Systems	VL 3	Numerical Mathematics I	VL 2	Operating Systems	VL 2	
9		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		UE 2		Fundamentals of Mechanical Engineering Design		HÜ 2		Analysis III		UE 1	Signals and Systems	UE 2	Numerical Mathematics I	UE 2	Operating Systems	UE 2	
10		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		UE 2		Fundamentals of Mechanical Engineering Design		HÜ 2		Differential Equations 1		VL 2							
11		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		UE 2		Fundamentals of Mechanical Engineering Design		HÜ 2		Differential Equations 1		UE 1							
12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	UE 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Differential Equations 1	HÜ 1													
13	Mathematics I		Technical Thermodynamics I		Mechanics III (Hydrostatics, Kinematics, Kinetics I)		Stochastics		Seminars Computer Science and Mathematics		Lab Cyber-Physical Systems								
14		Linear Algebra I		VL 2		Technical Thermodynamics I		VL 2		Mechanics III (Hydrostatics, Kinematics, Kinetics I)		VL 3	Stochastics	VL 2	Seminar Computational Engineering Science	SE 2	Lab Cyber-Physical Systems	PBL4	
15		Linear Algebra I		UE 1		Technical Thermodynamics I		HÜ 1		Mechanics III (Hydrostatics, Kinematics, Kinetics I)		UE 2	Stochastics	UE 2	Seminar Computational Mathematics/Computer Science	SE 2			
16		Linear Algebra I		HÜ 1		Technical Thermodynamics I		UE 1		Mechanics III (Hydrostatics, Kinematics, Kinetics I)		HÜ 1			Seminar Engineering Mathematics/Computer Science	SE 2			
17		Analysis I		VL 2		Technical Thermodynamics I		UE 1		Mechanics III (Hydrostatics, Kinematics, Kinetics I)		HÜ 1							
18		Analysis I		UE 1		Technical Thermodynamics I		UE 1											
19																			
20			Mechanics II: Mechanics of Materials		Computer Engineering		Graph Theory and Optimization		Computer Architecture		Bachelor Thesis								
21	Mechanics I (Statics)			Mechanics II		VL 2		Computer Engineering		VL 3		Graph Theory and Optimization	VL 2	Computer Architecture	VL 2				
22	Mechanics I	VL 2		Mechanics II		UE 2		Computer Engineering		UE 1		Graph Theory and Optimization	UE 2	Computer Architecture	PBL2				
23	Mechanics I	UE 2		Mechanics II		HÜ 2		Computer Engineering		UE 1				Computer Architecture	UE 1				
24	Mechanics I	HÜ 1																	
25			Mathematics II				Embedded Systems		Computernetworks and Internet Security										
26				Linear Algebra II		VL 2		Embedded Systems		VL 3									

27	Programming in C	Linear Algebra II	UE 1	Discrete Algebraic Structures	Embedded Systems	UE 1	Computer Networks and VL 3 Internet Security		
28		Programming in C	VL 1			Linear Algebra II		HÜ 1	Computer Networks and UE 1 Internet Security
		Programming in C	PR 1			Analysis II		VL 2	
29	Physics for Engineers (AIW)	Analysis II	HÜ 1	Discrete Algebraic Structures					
30		Analysis II	UE 1					Discrete Algebraic Structures	UE 2
31		Physics for Engineers	VL 2						
32	Physics for Engineers	UE 1							



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.