

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

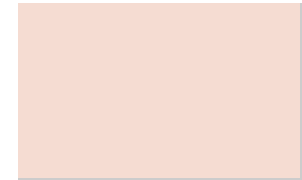
Sample course plan M Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))
Specialisation Computer Science

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		Computability and Complexity Theory								
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	Computability and Complexity Theory	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	Computability and Complexity Theory	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					Computability and Complexity Theory	UE 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					Computability and Complexity Theory	UE 2	
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		Software Engineering								
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	Software Engineering	VL 2	
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	Software Engineering	UE 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		Analysis I		HÜ 1		Technical Thermodynamics I		UE 1											
20			Mechanics II: Mechanics of Materials		Computer Engineering		Graph Theory and Optimization		Functional Programming		Mathematical Statistics		Bachelor Thesis						
21	Mechanics I (Statics)			Mechanics II		VL 2		Computer Engineering		VL 3		Graph Theory and Optimization		VL 2	Functional Programming	VL 2	Mathematical Statistics	VL 3	
22		Mechanics I (Statics)		VL 2		Mechanics II		UE 2		Computer Engineering		UE 1		Graph Theory and Optimization	UE 2	Functional Programming	HÜ 2	Mathematical Statistics	UE 1
23		Mechanics I (Statics)		UE 2		Mechanics II		HÜ 2		Computer Engineering		UE 1		Graph Theory and Optimization	UE 2	Functional Programming	UE 2		
24	Mechanics I (Statics)	HÜ 1																	
25			Mathematics II				Automata Theory and Formal Languages												
26				Linear Algebra II	VL 2														

27	Programming in C	Linear Algebra II	UE 1	Discrete Algebraic Structures	Automata Theory and Formal Languages	VL 2
28		Programming in C	VL 1		Linear Algebra II	HÜ 1
	Programming in C	PR 1	Analysis II	VL 2	Discrete Algebraic Structures	VL 2
29	Physics for Engineers (AIW)	Analysis II	HÜ 1	Discrete Algebraic Structures	Automata Theory and Formal Languages	UE 2
30		Analysis II	UE 1			
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.