Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w16)

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

	Programming in C PR 1	Analysis II VL 2	Discrete Algebraic Structures VL 2		Computer Networks and Internet Security UE 1	
29	**Physics for Engineers (AIW)**	Analysis II HÜ 1	Discrete Algebraic Structures UE 2			
30	Physics for Engineers VL 2	Analysis II UE 1				
31	Physics for Engineers UE 1					
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.