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

Sample course plan T Bachelor General Engineering Science (English program, 7 semester) (GESBS(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 (GES)**			**Fundamentals of Mechanical Engineering Design**			**Technical Thermodynamics II**			**Objectoriented Programming, Algorithms and Data Structures**			**Introduction to Control Systems**			**Foundations of Management**			**Advanced Internship GES**		
2	Chemistry I	VL	2	Fundamentals of Mechanical Engineering Design	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				Technical Thermodynamics II	HÜ	1							Management Tutorial	HÜ	2			
4	Chemistry I	HÜ	1	Fundamentals of Mechanical Engineering Design	HÜ	2	Technical Thermodynamics II	UE	1	Objectoriented Programming, Algorithms and Data Structures	UE	1	Introduction to Control Systems	UE	2						
5	Chemistry II	HÜ	1																		
6																					
7	**Linear Algebra**			**Technical Thermodynamics I**			**Mathematics III**			**Signals and Systems**			**Numerical Mathematics I**			**Operating Systems**					
8	Linear Algebra	VL	4	Technical Thermodynamics I	VL	2	Analysis III	VL	2	Signals and Systems	VL	3	Numerical Mathematics I	VL	2	Operating Systems	VL	2			
9	Linear Algebra	HÜ	2				Analysis III	UE	1	Signals and Systems	HÜ	1	Numerical Mathematics I	UE	2	Operating Systems	UE	2			
10	Linear Algebra	UE	2	Technical Thermodynamics I	HÜ	1	Analysis III	HÜ	1												
11				Technical Thermodynamics I	UE	1	Differential Equations 1	VL	2												
12							Differential Equations 1	UE	1												
13				**Mathematical Analysis**			Differential Equations 1	HÜ	1	**Stochastics**			**Seminars Computer Science and Mathematics**			**Lab Cyber-Physical Systems**					
14				Mathematical Analysis	VL	4				Stochastics	VL	2	Seminar Computational Engineering Science	SE	2	Lab Cyber-Physical Systems	PBL	4			
15	**Electrical Engineering I**			Mathematical Analysis	HÜ	2	**Mechanics III (GES)**			Stochastics	UE	2	Seminar Computational Mathematics/Computer Science	SE	2						
16	Electrical Engineering I	VL	3	Mathematical Analysis	UE	2	Mechanics III	HÜ	1				Seminar Engineering Mathematics/Computer Science	SE	2						
17	Electrical Engineering I	UE	2				Mechanics III	UE	2												
18							Mechanics III	VL	3												
19										**Graph Theory and Optimization**			**Computer Architecture**						**Bachelor Thesis**	
20										Graph Theory and Optimization	VL	2	Computer Architecture	VL	2						
21	**Mechanics I (GES)**			**Electrical Engineering II**			**Computer Engineering**			Graph Theory and Optimization	UE	2	Computer Architecture	PBL	2						
22	Mechanics I	VL	2	Electrical Engineering II	VL	3	Computer Engineering	VL	3				Computer Architecture	UE	1						
23	Mechanics I	HÜ	3	Electrical Engineering II	UE	2	Computer Engineering	UE	1												
24																					
25										**Embedded Systems**			**Computernetworks and Internet Security**								
26										Embedded Systems	VL	3	Computer Networks and Internet Security	VL	3						
27	**Programming in C**			**Mechanics II (GES)**			**Discrete Algebraic Structures**			Embedded Systems	UE	1	Computer Networks and Internet Security	UE	1						
28	Programming in C	VL	1	Mechanics II	VL	2	Discrete Algebraic Structures	VL	2												
29	Programming in C	PR	1	Mechanics II	HÜ	2															
30	**Physics for Engineers (GES)**						Discrete Algebraic	UE	2												

31	Physics for Engineers	VL 2		Structures	
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.