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

Sample course plan - Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))
Specialisation Civil Engineering

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)**			**Technical Thermodynamics I**			**Technical Thermodynamics II**			**Building Materials and Building Chemistry**			**Computer Engineering**			**Foundations of Management**			**Advanced Internship AIW/ GES**		
2	Chemistry I	VL	2	Technical Thermodynamics I	VL	2	Technical Thermodynamics II	VL	2	Building Materials and Building Chemistry	VL	4	Computer Engineering	VL	3	Introduction to Management	VL	3			
3	Chemistry II	VL	2	Technical Thermodynamics I	HÜ	1	Technical Thermodynamics II	HÜ	1	Building Materials and Building Chemistry	UE	1	Computer Engineering	UE	1	Management Tutorial	UE	2			
4	Chemistry I	HÜ	1	Technical Thermodynamics I	UE	1	Technical Thermodynamics II	UE	1												
5	Chemistry II	HÜ	1																		
6																					
7	**Linear Algebra**			**Mathematical Analysis**			**Mathematics III**			**Reinforced Concrete Structures I**			**Introduction to Control Systems**								
8	Linear Algebra	VL	4	Mathematical Analysis	VL	4	Analysis III	VL	2	Reinforced Concrete Design I	VL	2	Introduction to Control Systems	VL	2						
9	Linear Algebra	HÜ	2	Mathematical Analysis	HÜ	2	Analysis III	UE	1	Reinforced Concrete Design I	HÜ	2	Introduction to Control Systems	UE	2						
10	Linear Algebra	UE	2	Mathematical Analysis	UE	2	Analysis III	HÜ	1	Project Seminar Concrete I	SE	1									
11							Differential Equations 1	VL	2												
12							Differential Equations 1	UE	1												
13							Differential Equations 1	HÜ	1	**Geotechnics I**			**Structural Design**								
14										Soil Mechanics	VL	2	Basics of Structural Design	VL	2						
15	**Electrical Engineering I**			**Electrical Engineering II**			**Engineering Mechanics III (GES)**			Soil Mechanics	HÜ	2	Basics in Structural Design	HÜ	1						
16	Electrical Engineering I	VL	3	Electrical Engineering II	VL	3	Mechanics III	HÜ	1	Soil Mechanics	UE	2	Basics in Structural Design	PBL	2						
17	Electrical Engineering I	UE	2	Electrical Engineering II	UE	2	Mechanics III	UE	2												
18							Mechanics III	VL	3												
19										**Structural Analysis II**			**Steel Structures I**						**Bachelor Thesis**		
20										Structural Analysis II	VL	2	Steel Structures I	VL	2						
21	**Mechanics I (GES)**			**Mechanics II (GES)**			**Principles of Building Materials and Building Physics**			Structural Analysis II	HÜ	2	Steel Structures I	HÜ	2						
22	Mechanics I	VL	2	Mechanics II	VL	2	Principles of Building Materials	VL	2												
23	Mechanics I	HÜ	3	Mechanics II	HÜ	2	Building Physics	VL	2												
24							Building Physics	HÜ	1				**Hydromechanics and Hydrology**								
25							Building Physics	UE	1				Hydromechanics	VL	2						
26													Hydromechanics	PBL	1						
27	**Programming in C**			**Fundamentals of Mechanical Engineering Design (GES)**			**Structural Analysis I**						Hydrology	VL	1						
28	Programming in C	VL	1	Fundamentals of	VL	2	Structural Analysis I	VL	2				Hydrology	PBL	1						
29	Programming in C	PR	1	Mechanical			Structural Analysis I	HÜ	2												
	Physics for Engineers																				

30	**(GES)**	Engineering			
31	Physics for Engineers VL 2	Fundamentals of Mechanical Engineering UE 2			
32	Physics for Engineers UE 1				

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.