

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

Sample course plan A 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/Week	Semester 2	Form/hrs/Week	Semester 3	Form/hrs/Week	Semester 4	Form/hrs/Week	Semester 5	Form/hrs/Week	Semester 6	Form/hrs/Week	Semester 7	Form/hrs/Week
1	Chemistry (GES)		Fundamentals of Mechanical Engineering Design		Technical Thermodynamics II		Building Materials and Building Chemistry		Computer Engineering		Foundations of Management		Advanced Internship GES	
2	Chemistry I	VL 2							Computer Engineering	VL 3	Introduction to Management	VL 3		
3	Chemistry II	VL 2	Fundamentals of Mechanical Engineering Design	VL 2	Technical Thermodynamics II	VL 2	Building Materials and Building Chemistry	VL 4	Computer Engineering	UE 1	Management Tutorial	HÜ 2		
4	Chemistry I	HÜ 1												
5	Chemistry II	HÜ 1	Fundamentals of Mechanical Engineering Design	HÜ 2	Technical Thermodynamics II	HÜ 1	Building Materials and Building Chemistry	UE 1						
6					Technical Thermodynamics II	UE 1								
7	Linear Algebra		Technical Thermodynamics I		Mathematics III		Reinforced Concrete I		Introduction to Control Systems		Structural Design			
8	Linear Algebra	VL 4	Technical Thermodynamics I	VL 2	Analysis III	VL 2	Reinforced Concrete Design I	VL 2	Introduction to Control Systems	VL 2	Basics of Structural Design	VL 2		
9	Linear Algebra	HÜ 2			Analysis III	UE 1								
10	Linear Algebra	UE 2	Technical Thermodynamics I	HÜ 1	Analysis III	HÜ 1	Reinforced Concrete Design I	HÜ 2	Introduction to Control Systems	UE 2	Exercises in Structural Design	HÜ 1		
11					Differential Equations 1	VL 2	Project Seminar Concrete I	SE 1			Seminar in Structural Design	PBL2		
12			Technical Thermodynamics I	UE 1	Differential Equations 1	UE 1								
13					Differential Equations 1	HÜ 1								
14			Mathematical Analysis				Geotechnics I		Steel Structures I		Sanitary Engineering			
15			Mathematical Analysis	VL 4			Soil Mechanics	VL 2	Steel Structures I	VL 2	Wastewater Disposal	VL 2		
16	Electrical Engineering I		Mathematical Analysis	HÜ 2	Mechanics III (GES)		Soil Mechanics	HÜ 2	Steel Structures I	HÜ 2	Wastewater Disposal	HÜ 1		
17	Electrical Engineering I	VL 3	Mathematical Analysis	UE 2	Mechanics III	HÜ 1	Soil Mechanics	UE 2			Drinking Water Supply	VL 2		
18	Electrical Engineering I	UE 2			Mechanics III	UE 2					Drinking Water Supply	HÜ 1		
19					Mechanics III	VL 3								
20							Structural Analysis II		Hydraulic Engineering I		Hydraulic Engineering II		Bachelor Thesis	
21							Structural Analysis II	VL 2	Hydromechanics	VL 2	Hydraulics	VL 1		
22	Mechanics I (GES)		Electrical Engineering II		Principles of Building Materials and Building Physics		Structural Analysis II	HÜ 2	Hydromechanics	HÜ 1	Hydraulics	HÜ 1		
23	Mechanics I	VL 2	Electrical Engineering II	VL 3					Hydrology	VL 1	Hydraulic Engineering	VL 2		
24	Mechanics I	HÜ 3	Electrical Engineering II	UE 2	Principles of Building Materials	VL 2			Hydrology	PBL1	Hydraulic Engineering	HÜ 1		
25														
26					Building Physics	VL 2			Water Management					
					Building Physics	HÜ 1			Groundwater Hydrology	VL 1				
					Building Physics	UE 1			Groundwater Hydrology	HÜ 1				
									Water Management and Water Quality	VL 2				
27	Programming in C		Mechanics II (GES)		Structural Analysis I									
28	Programming in C	VL 1	Mechanics II	VL 2	Structural Analysis I	VL 2								
	Programming in C	PR 1	Mechanics II	HÜ 2	Structural Analysis I	HÜ 2								
29	Physics for Engineers (GES)													
30	Physics for Engineers	VL 2												
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.