Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20)

Legend:

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

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

LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs/wk
1	**Chemistry**		**Electrical Engineering II: Alternating Current Networks and Basic Devices**		**Technical Thermodynamics II**		**Signals and Systems**		**Introduction to Control Systems**		**Foundations of Management**		**Advanced Internship AIW/ ES**	
2	Chemistry I+II	VL 4	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	VL 2	Signals and Systems	VL 3	Introduction to Control Systems	VL 2	Introduction to Management	VL 3	Advanced Internship AIW/ ES: Preparation	SE 1
3	Chemistry I+II	HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2	Technical Thermodynamics II	HÜ 1	Signals and Systems	GÜ 2	Introduction to Control Systems	GÜ 2	Management Tutorial	GÜ 2	Advanced Intenship AIW/ ES: Internship-accompanying Seminar	SE 1
4					Technical Thermodynamics II	GÜ 1								
5														
6														
7	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**		**Fundamentals of Mechanical Engineering Design**		**Mathematics III**		**Building Materials and Building Chemistry**		**Structural Design**		**Geoinformation Science**			
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Fundamentals of Mechanical Engineering Design	VL 2	Analysis III	VL 2	Building Materials and Building Chemistry	VL 4	Basics of Structural Design	VL 2	Introduction to Geoinformation Science	PBL 3		
9					Analysis III	GÜ 1	Building Materials and Building Chemistry	GÜ 1	Basics in Structural Design	HÜ 1				
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Analysis III	HÜ 1			Basics in Structural Design	PBL 2	**Computational Structural Mechanics**			
11					Differential Equations 1	VL 2					Computational Stuctural Mechanics	IV 2		
12					Differential Equations 1	GÜ 1					Computational Structural Mechanics	GÜ 1		
13	**Mathematics I**		**Technical Thermodynamics I**		Differential Equations 1	HÜ 1	**Reinforced Concrete Structures I**		**Steel Structures I**		**Steel Structures II**			
14	Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2			Reinforced Concrete Design I	VL 2	Steel Structures I	VL 2	Steel Structures II	VL 2		
15	Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1	**Mechanics III (Dynamics)**		Reinforced Concrete Design I	HÜ 2	Steel Structures I	HÜ 2	Steel Structures II	HÜ 2		
16	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1	Mechanics III	VL 3	Project Seminar Concrete I	SE 1						
17	Analysis I	VL 2			Mechanics III	GÜ 2								
18	Analysis I	GÜ 1			Mechanics III	HÜ 1								
19	Analysis I	HÜ 1	**Mechanics II: Mechanics of Materials**				**Structural Analysis II**		**Geotechnics I**		**Geotechnics II**		**Bachelor Thesis**	
20			Mechanics II	VL 2			Structural Analysis II	VL 2	Soil Mechanics	VL 2	Foundation Engineering	VL 2		
21	**Mechanics I (Statics)**		Mechanics II	GÜ 2	**Principles of Building Materials and Building Physics**		Structural Analysis II	HÜ 2	Soil Mechanics	HÜ 2	Foundation Engineering	HÜ 2		
22	Mechanics I	VL 2	Mechanics II	HÜ 2	Principles of Building Materials	VL 2			Soil Mechanics	GÜ 2	Foundation Engineering	GÜ 2		
23	Mechanics I	GÜ 2			Building Physics	VL 2								
24	Mechanics I	HÜ 1			Building Physics	HÜ 1								
25			**Mathematics II**		Building Physics	GÜ 1			**Hydromechanics and Hydrology**					
26			Linear Algebra II	VL 2					Hydromechanics	VL 2				
27	**Programming in C**		Linear Algebra II	GÜ 1	**Structural Analysis I**				Hydromechanics	PBL 1				
28	Programming in C	VL 1	Linear Algebra II	HÜ 1	Structural Analysis I	VL 2			Hydrology	VL 1				
	Programming in C	PR 1	Analysis II	VL 2	Structural Analysis I	HÜ 2			Hydrology	PBL 1				
29	**Physics for Engineers (AIW)**		Analysis II	HÜ 1										
30	Physics for Engineers	VL 2	Analysis II	GÜ 1										
31	Physics for Engineers	GÜ 1												
32														

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.