Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w18)

Sample course plan C 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

Semester 1

Chemistry (GES)

	Form	Hrs/wk
Chemistry I	VL	2
Chemistry II	VL	2
Chemistry I	HÜ	1
Chemistry II	HÜ	1

Linear Algebra

	Form	Hrs/wk
Linear Algebra	VL	4
Linear Algebra	HÜ	2
Linear Algebra	UE	2

Electrical Engineering I

	Form	Hrs/wk
Electrical Engineering I	VL	3
Electrical Engineering I	UE	2

Mechanics I (GES)

	Form	Hrs/wk
Mechanics I	VL	2
Mechanics I	HÜ	3

Programming in C

	Form	Hrs/wk
Programming in C	VL	1
Programming in C	PR	1

Physics for Engineers (GES)

	Form	Hrs/wk
Physics for Engineers	VL	2

Semester 2

Technical Thermodynamics I

	Form	Hrs/wk
Technical Thermodynamics I	VL	2
Technical Thermodynamics I	HÜ	1
Technical Thermodynamics I	UE	1

Mathematical Analysis

	Form	Hrs/wk
Mathematical Analysis	VL	4
Mathematical Analysis	HÜ	2
Mathematical Analysis	UE	2

Electrical Engineering II

	Form	Hrs/wk
Electrical Engineering II	VL	3
Electrical Engineering II	UE	2

Mechanics II (GES)

	Form	Hrs/wk
Mechanics II	VL	2
Mechanics II	HÜ	2

Fundamentals of Mechanical Engineering (GES)

	Form	Hrs/wk
Fundamentals of Mechanical Engineering	VL	2
Fundamentals of Mechanical Engineering	UE	2

Semester 3

Technical Thermodynamics II

	Form	Hrs/wk
Technical Thermodynamics II	VL	2
Technical Thermodynamics II	HÜ	1
Technical Thermodynamics II	UE	1

Mathematics III

	Form	Hrs/wk
Analysis III	VL	2
Analysis III	UE	1
Analysis III	HÜ	1
Differential Equations 1	VL	2
Differential Equations 1	UE	1
Differential Equations 1	HÜ	1

Mechanics III (GES)

	Form	Hrs/wk
Mechanics III	HÜ	1
Mechanics III	UE	2
Mechanics III	VL	3

Principles of Building Materials and Building Physics

	Form	Hrs/wk
Principles of Building Materials	VL	2
Building Physics	VL	2
Building Physics	HÜ	1
Building Physics	UE	1

Structural Analysis I

	Form	Hrs/wk
Structural Analysis I	VL	2
Structural Analysis I	HÜ	2

Semester 4

Building Materials and Building Chemistry

	Form	Hrs/wk
Building Materials and Building Chemistry	VL	4
Building Materials and Building Chemistry	UE	1

Reinforced Concrete I

	Form	Hrs/wk
Reinforced Concrete Design I	VL	2
Reinforced Concrete Design I	HÜ	2
Project Seminar Concrete I	SE	1

Geotechnics I

	Form	Hrs/wk
Soil Mechanics	VL	2
Soil Mechanics	HÜ	2
Soil Mechanics	UE	2

Structural Analysis II

	Form	Hrs/wk
Structural Analysis II	VL	2
Structural Analysis II	HÜ	2

Applications in Civil and

Semester 5

Computer Engineering

	Form	Hrs/wk
Computer Engineering	VL	3
Computer Engineering	UE	1

Introduction to Control Systems

	Form	Hrs/wk
Introduction to Control Systems	VL	2
Introduction to Control Systems	UE	2

Steel Structures I

	Form	Hrs/wk
Steel Structures I	VL	2
Steel Structures I	HÜ	2

Hydraulic Engineering I

	Form	Hrs/wk
Hydromechanics	VL	2
Hydromechanics	HÜ	1
Hydrology	VL	1
Hydrology	PBL	1

Geotechnics II

	Form	Hrs/wk
Foundation Engineering	VL	2
Foundation Engineering	HÜ	2
Foundation Engineering	UE	2

Semester 6

Foundations of Management

	Form	Hrs/wk
Introduction to Management	VL	3
Management Tutorial	HÜ	2

Structural Design

	Form	Hrs/wk
Basics of Structural Design	VL	2
Exercises in Structural Design	HÜ	1
Seminar in Structural Design	PBL	2

Hydraulic Engineering II

	Form	Hrs/wk
Hydraulics	VL	1
Hydraulics	HÜ	1
Hydraulic Engineering	VL	2
Hydraulic Engineering	HÜ	1

Applications in Civil and Environmental Engineering (part 2)

	Form	Hrs/wk
Selection from a catalog		

Semester 7

Advanced Internship GES

Bachelor Thesis

LP (Leistungspunkte) scale: 1–31

32	Physics for Engineers	UE 1						Environmental Engineering (part 1)
33								Selection from a catalog

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.