# Course of Study General Engineering Science (English program) (Study Cohort w14)

Sample course plan - Bachelor General Engineering Science (English program) (GESBS)
Specialisation Civil- and Enviromental Engeneering

Legend:

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **Chemistry (GES)** | | | **Physics for Engineers (GES) (part 2)** | | | **Technical Thermodynamics II** | | | **Foundations of Management** | | | **Introduction to Control Systems** | | | **Sanitary Engineering** | | |
| 2 | Chemistry I | VL | 2 | Physics-Lab for ET/IIW-Engineers | PR | 1 | Technical Thermodynamics II | VL | 2 | Introduction to Management | VL | 4 | Introduction to Control Systems | VL | 2 | Wastewater Disposal | VL | 2 |
| 3 | Chemistry II | VL | 2 | **Fundamentals of Mechanical Engineering Design** | | | Technical Thermodynamics II | HÜ | 1 | Project Entrepreneurship | POL | 2 | Introduction to Control Systems | UE | 2 | Wastewater Disposal | HÜ | 1 |
| 4 | Chemistry I | HÜ | 1 | Fundamentals of Mechanical Engineering Design | VL | 2 | Technical Thermodynamics II | UE | 1 | | | | | | | Drinking Water Supply | VL | 2 |
| 5 | Chemistry II | HÜ | 1 | | | | | | | | | | | | | Drinking Water Supply | HÜ | 1 |
| 6 | | | | Fundamentals of Mechanical Engineering Design | HÜ | 2 | | | | | | | | | | | | |
| 7 | **Linear Algebra** | | | | | | **Computer Engineering** | | | **Reinforced Concrete I** | | | **Principles of Building Materials and Building Physics** | | | **Hydraulic Engineering II** | | |
| 8 | Linear Algebra | VL | 4 | | | | Computer Engineering | VL | 3 | Reinforced Concrete Design I | VL | 2 | Principles of Building Materials | VL | 2 | Hydraulics | VL | 1 |
| 9 | Linear Algebra | HÜ | 2 | **Technical Thermodynamics I** | | | Computer Engineering | UE | 1 | Reinforced Concrete Design I | HÜ | 2 | Building Physics | VL | 2 | Hydraulics | HÜ | 1 |
| 10 | Linear Algebra | UE | 2 | Technical Thermodynamics I | VL | 2 | | | | Project Seminar Concrete I | SE | 1 | Building Physics | HÜ | 1 | Hydraulic Engineering | VL | 2 |
| 11 | | | | Technical Thermodynamics I | HÜ | 1 | | | | | | | Building Physics | UE | 1 | Hydraulic Engineering | HÜ | 1 |
| 12 | | | | Technical Thermodynamics I | UE | 1 | | | | | | | | | | | | |
| 13 | | | | | | | **Mathematics III** | | | **Signals and Systems** | | | **Steel Structures I** | | | **Bachelor Thesis** | | |
| 14 | | | | | | | Analysis III | VL | 2 | Signals and Systems | VL | 3 | Steel Structures I | VL | 2 | | | |
| 15 | **Electrical Engineering I** | | | **Mathematical Analysis** | | | Analysis III | UE | 1 | Signals and Systems | HÜ | 1 | Steel Structures I | HÜ | 2 | | | |
| 16 | Electrical Engineering I | VL | 3 | Mathematical Analysis | VL | 4 | Analysis III | HÜ | 1 | | | | | | | | | |
| 17 | Electrical Engineering I | UE | 2 | Mathematical Analysis | HÜ | 2 | Differential Equations 1 | VL | 2 | | | | | | | | | |
| 18 | | | | Mathematical Analysis | UE | 2 | Differential Equations 1 | UE | 1 | | | | | | | | | |
| 19 | | | | | | | Differential Equations 1 | HÜ | 1 | **Geotechnics I** | | | **Concrete Structures II** | | | | | |
| 20 | | | | | | | | | | Soil Mechanics | VL | 2 | Concrete Structures II | VL | 3 | | | |
| 21 | **Mechanics I (GES)** | | | | | | **Mechanics III (GES)** | | | Soil Mechanics | HÜ | 2 | Concrete Structures II | HÜ | 1 | | | |
| 22 | Mechanics I | VL | 2 | | | | Mechanics III | HÜ | 1 | Soil Mechanics | POL | 2 | Project Concrete Structures II | PS | 1 | | | |
| 23 | Mechanics I | HÜ | 3 | | | | Mechanics III | UE | 2 | | | | | | | | | |
| 24 | | | | **Electrical Engineering II** | | | Mechanics III | VL | 3 | | | | | | | | | |
| 25 | | | | Electrical Engineering II | VL | 3 | | | | **Structural Analysis II** | | | **Hydraulic Engineering I** | | | | | |
| 26 | | | | Electrical Engineering II | UE | 2 | | | | Structural Analysis II | VL | 2 | Hydromechanics | VL | 2 | | | |
| 27 | **Physics for Engineers (GES) (part 1)** | | | | | | **Structural Analysis I** | | | Structural Analysis II | HÜ | 2 | Hydromechanics | HÜ | 1 | | | |
| 28 | Physics for Engineers | VL | 2 | | | | Structural Analysis I | VL | 2 | | | | Hydrology | VL | 1 | | | |
| 29 | Physics for Engineers | UE | 1 | | | | Structural Analysis I | HÜ | 2 | | | | Hydrology | POL | 1 | | | |
| 30 | | | | **Mechanics II (GES)** | | | | | | | | | | | | | | |
| 31 | | | | Mechanics II | VL | 2 | | | | | | | **Geotechnics II** | | | | | |
| 32 | | | | Mechanics II | HÜ | 2 | | | | | | | Foundation Engineering | VL | 2 | | | |
| 33 | | | | | | | | | | | | | Foundation Engineering | HÜ | 2 | | | |
| 34 | | | | | | | | | | | | | Foundation Engineering | POL | 2 | | | |

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| 35 | | **Programming in C** | |
| 36 | | Programming in C | VL 1 |
| | | Programming in C | PR 1 |

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| 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.