

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

Sample course plan A Bachelor General Engineering Science (English program) (GESBS)
Specialisation Process Engineering

Legend:

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|-------------------------------|---------------------------|---------------------------|------------------------------|
| Core qualification Compulsory | Specialisation Compulsory | Focus Compulsory | Thesis Compulsory |
| Core qualification Elective | Specialisation Elective | Focus Elective Compulsory | Interdisciplinary complement |
| Compulsory | Compulsory | | |

| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | Chemistry (GES) | | Physics for Engineers (GES) (part 2) | | Technical Thermodynamics II | | Physical Chemistry (part 2) | | Introduction to Control Systems | | Foundations of Management | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Chemistry I | VL 2 | Physics-Lab for ET/IIW-Engineers | PR 1 | Technical Thermodynamics II | VL 2 | Environmental Assessment | VL 2 | Introduction to Control Systems | VL 2 | Introduction to Management | VL 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Chemistry II | VL 2 | Fundamentals of Mechanical Engineering Design | Fundamentals of Mechanical Engineering Design | Technical Thermodynamics II | HÜ 1 | Fundamentals of Fluid Mechanics | Fundamentals of Fluid Mechanics | Introduction to Control Systems | UE 2 | Project Entrepreneurship | POL 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Chemistry I | HÜ 1 | | | Technical Thermodynamics II | UE 1 | | | Exercises in Fluid Mechanics for | HÜ 1 | Heat and Mass Transfer | Heat and Mass Transfer | Heat and Mass Transfer | Thermal Separation Processes (part 2) | Separation Processes | PR 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Chemistry II | HÜ 1 | | | Computer Engineering | VL 3 | | | Process Engineering | | | | | | | | Phase Equilibria Thermodynamics | Thermodynamics III | Thermodynamics III | Thermodynamics III | HÜ 1 | Chemical Reaction Engineering (part 2) | Experimental Course Chemical Engineering | PR 2 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Linear Algebra | VL 4 | | | Computer Engineering | UE 1 | | | Thermodynamics III | VL 2 | | | | | | | | | | | | | | | Thermal Separation Processes (part 1) | Thermal Separation Processes | Thermal Separation Processes | Thermal Separation Processes | HÜ 1 | Process and Plant Engineering I | Process and Plant Engineering I | VL 2 | | | | | | | | | | | | | | |
| 7 | Linear Algebra | HÜ 2 | | | Technical Thermodynamics I | VL 2 | | | Thermodynamics III | UE 1 | | | | | | | | | | | | | | | | | | | | | | | Signals and Systems | Signals and Systems | Signals and Systems | Signals and Systems | HÜ 1 | Particle Technology and Solids Process Engineering | Particle Technology I | VL 2 | | | | | | |
| 8 | Linear Algebra | UE 2 | | | Technical Thermodynamics I | HÜ 1 | | | Differential Equations 1 | VL 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Practical Training in Process Engineering (part 1) | Practical Training in Measurement Techniques | Practical Training in Measurement Techniques | Practical Training in Measurement Techniques | PR 3 | Chemical Reaction Engineering (part 1) |
| 9 | Linear Algebra | UE 2 | Technical Thermodynamics I | UE 1 | Differential Equations 1 | UE 1 | Bioprocess Engineering - Fundamentals | Bioprocess Engineering - Fundamentals | Bioprocess Engineering - Fundamentals | Bioprocess Engineering - Fundamentals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Electrical Engineering I | VL 3 | Mathematical Analysis | VL 4 | Differential Equations 1 | HÜ 1 | | | | | Practical Training in Process Engineering (part 2) | Measurement Methods in Process Engineering | Measurement Methods in Process Engineering | Measurement Methods in Process Engineering | VL 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Electrical Engineering I | UE 2 | Mathematical Analysis | HÜ 2 | Differential Equations 1 | UE 1 | | | | | | | | | | | Fundamentals of Process Engineering | Environmental Technologie | Introduction into Process Engineering/Bioprocess Engineering | Fundamentals of Technical Drawing and Materials | Fundamentals of Technical Drawing and Materials | HÜ 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Electrical Engineering I | UE 2 | Mathematical Analysis | UE 2 | Differential Equations 1 | HÜ 1 | | | | | | | | | | | | | | | | | | | Mechanics III (GES) | Mechanics III | Mechanics III | Mechanics III | VL 3 | | | | | | | | | | | | | | | | | |
| 13 | Electrical Engineering I | UE 2 | Mathematical Analysis | UE 2 | Differential Equations 1 | HÜ 1 | | | | | | | | | | | | | | | | | | | | | | | | | | Mechanics II (GES) | Mechanics II | Mechanics II | Mechanics II | VL 2 | | | | | | | | | | |
| 14 | Electrical Engineering I | UE 2 | Mathematical Analysis | UE 2 | Differential Equations 1 | HÜ 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | VL 2 | | | |
| 15 | Electrical Engineering I | UE 2 | Mathematical Analysis | UE 2 | Differential Equations 1 | HÜ 1 | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | UE 1 |
| 16 | Mechanics I (GES) | | Electrical Engineering II | VL 3 | Mechanics III | HÜ 1 | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | UE 2 | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | | | | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | | | | | | | | | | | | | | | |
| 19 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | | | | | | | | | | | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | | | | | | | | |
| 20 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | |
| 21 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | UE 1 | |
| 22 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | | | | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | | | | | | | | | | | | | | | |
| 25 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | | | | | | | | | | | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | | | | | | | | |
| 26 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | |
| 27 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | UE 1 | |
| 28 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | | | | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | | | | | | | | | | | | | | | |
| 31 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | | | | | | | | | | | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | | | | | | | | |
| 32 | Mechanics I (GES) | | Electrical Engineering II | UE 2 | Mechanics III | VL 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Physics for Engineers (GES) (part 1) | Physics for Engineers | Physics for Engineers | Physics for Engineers | UE 1 | | | | |

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| | | Physical Chemistry (part 1) |
| | Physical Chemistry | VL 2 |
| | Physical Chemistry | PR 2 |
| | Programming in C | |
| | Programming in C | VL 1 |
| | Programming in C | PR 1 |



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.