

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

Sample course plan B Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))
Specialisation Energy and Environmental Engineering

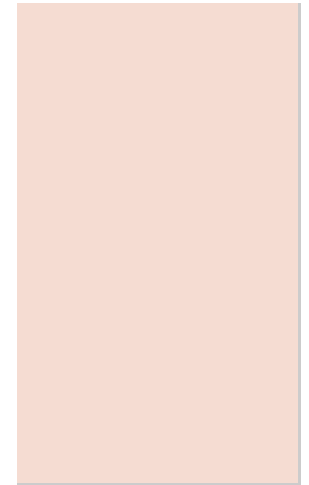
Legend:

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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 | Semester 2 | Form | Semester 3 | Form | Semester 4 | Form | Semester 5 | Form | Semester 6 | Form | Semester 7 | Form | | | | | | |
|----|---------------------------------|------|-----------------------------------|------|------------------------------------|-----------------------|--|------|--|------|--|------|-------------------------------------|------|--------------------------|----------------------------|-----------------------------|---|---|---|
| 1 | Chemistry (GES) | VL 2 | Technical Thermodynamics I | VL 2 | Technical Thermodynamics II | VL 2 | Mechanical Engineering: Design (part 2) | PBL2 | Introduction to Control Systems | VL 2 | Foundations of Management | VL 3 | Advanced Internship AIW/ GES | | | | | | | |
| 2 | | | | | | | | | | | | | | | Chemistry I | Technical Thermodynamics I | Technical Thermodynamics II | Team Project Design Methodology | Introduction to Control Systems | Introduction to Management |
| 3 | | | | | | | | | | | | | | | Chemistry II | Technical Thermodynamics I | Technical Thermodynamics II | Mechanical Design Project II | Introduction to Control Systems | Management Tutorial |
| 4 | | | | | | | | | | | | | | | Chemistry I | Technical Thermodynamics I | Technical Thermodynamics II | | | |
| 5 | | | | | | | | | | | | | | | Chemistry II | Technical Thermodynamics I | Technical Thermodynamics II | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | Linear Algebra | VL 4 | Mathematical Analysis | VL 4 | Mathematics III | VL 2 | Fundamentals of Fluid Mechanics | VL 2 | Heat and Mass Transfer | VL 2 | Environmental Technology (part 2) | PR 1 | | | | | | | | |
| 8 | | | | | | | | | | | | | | | Linear Algebra | Mathematical Analysis | Analysis III | Fundamentals of Fluid Mechanics | Heat and Mass Transfer | Practical Exercise |
| 9 | | | | | | | | | | | | | | | Linear Algebra | Mathematical Analysis | Analysis III | Fluid Mechanics for Process Engineering | Heat and Mass Transfer | Environmental Technology |
| 10 | | | | | | | | | | | | | | | Linear Algebra | Mathematical Analysis | Analysis III | Differential Equations 1 | Heat and Mass Transfer | |
| 11 | | | | | | | | | | | | | | | | | Differential Equations 1 | | | Particle Technology and Solids Process Engineering |
| 12 | | | | | | | | | | | | | | | | | Differential Equations 1 | | | Particle Technology I |
| 13 | | | | | | Particle Technology I | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | |
| 15 | Electrical Engineering I | VL 3 | Electrical Engineering II | VL 3 | Mechanics III (GES) | HÜ 1 | Electrical Machines and Actuators | HÜ 2 | VL 2 | VL 2 | Environmental Technology | VL 2 | | | | | | | | |
| 16 | | | | | | | | | | | | | | | Electrical Engineering I | Electrical Engineering II | Mechanics III | Electrical Machines and Actuators | Thermal Separation Processes | Environmental Assessment |
| 17 | | | | | | | | | | | | | | | Electrical Engineering I | Electrical Engineering II | Mechanics III | Electrical Machines and Actuators | Thermal Separation Processes | Environmental Assessment |
| 18 | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | |
| 21 | Mechanics I (GES) | VL 2 | Mechanics II (GES) | VL 2 | Computer Engineering | VL 3 | Renewables and Energy Systems | VL 2 | VL 2 | VL 2 | Process and Plant Engineering I | VL 2 | Bachelor Thesis | | | | | | | |
| 22 | | | | | | | | | | | | | | | Mechanics I | Mechanics II | Computer Engineering | Renewable Energy | Measurement Technology for Mechanical Engineers | Process and Plant Engineering I |
| 23 | | | | | | | | | | | | | | | Mechanics I | Mechanics II | Computer Engineering | Power Industry | Measurement Technology for Mechanical Engineers | Process and Plant Engineering I |

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| 24 | | | |
| 25 | | | |
| 26 | | | |
| 27 | Programming in C | Fundamentals of Mechanical Engineering (GES) | Mechanical Engineering: Design (part 1) |
| 28 | Programming in C VL 1 Programming in C PR 1 | Fundamentals of Mechanical Engineering VL 2 | Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL3 |
| 29 | Physics for Engineers (GES) | Fundamentals of Mechanical Engineering UE 2 | Fundamentals of Materials Science (part 1) |
| 30 | Physics for Engineers VL 2 | | Fundamentals of Materials Science I VL 2 |
| 31 | Physics for Engineers UE 1 | | Physical and Chemical Basics of Materials Science VL 2 |
| 32 | | | |
| 33 | | | |

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| Mechanical Engineering | |
| Practical Course: Measurement and Control Systems | PR 2 |
| Environmental Technology (part 1) | |
| Environmental Technologie | VL 2 |



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.