## Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w17)

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

| Legend:                                   |                                       |                           |                              |
|---|---------------------------------------|---------------------------|------------------------------|
| Core qualification<br>Compulsory          | Specialisation Compulsory             | Focus Compulsory          | Thesis Compulsory            |
| Core qualification Elective<br>Compulsory | Specialisation Elective<br>Compulsory | Focus Elective Compulsory | Interdisciplinary complement |

| LP       | Semester 1                    | For <b>im</b> rs | /ស្រី៤mester 2 ForMirs                | /ស្នkemester 3 Forhh                           | rs/&kmester 4                           | Formers          | s/vSikemester 5 Formir               | s/wskemester 6 Forther                                | s/vSikemester 7 Formirs/v       |
|----------|-------------------------------|------------------|---------------------------------------|--|---|------------------|--------------------------------------|---|---------------------------------|
| 1 2      | Chemistry (GES) Chemistry I   | VL 2             | Technical<br>Thermodynamics I         | Technical<br>Thermodynamics II                 | Mechanical Engineer<br>Design (part 2)  | ring:            | Introduction to Control<br>Systems   | Foundations of<br>Management                          | Advanced Internship AIW/<br>GES |
| 3        | *                             | VL 2             | Technical VL 2                        | Technical VL 2                                 | , ,                                     | PBL2             | Introduction to VL 2                 | Introduction to VL 3                                  |                                 |
|          | Chemistry I                   | HÜ 1             | Thermodynamics I  Technical HÜ 1      | Thermodynamics II  Technical HÜ 1              | Methodology  Mechanical Design          | PBL3             | Control Systems Introduction to UE 2 | Management Tutorial HÜ 2                              |                                 |
|          | Chemistry II                  | HÜ 1             | Thermodynamics I                      | Thermodynamics II                              | Project II                              | · DES            | Control Systems                      | Hanagement rational Tro 2                             |                                 |
| 4        |                               |                  | Technical UE 1 Thermodynamics I       | Technical UE 1 Thermodynamics II               | Fundamentals of                         |                  |                                      |   |                                 |
| 5        |                               |                  | mermodynamics i                       | memodynamics ii                                | Materials Science (p                    | art 2)           |                                      |   |                                 |
|          |                               |                  |                                       |  | Fundamentals of<br>Materials Science II | VL 2             |                                      |   |                                 |
| 6        |                               |                  |                                       |  | Fundamentals of Flu                     | iid              |                                      |   |                                 |
| 7        | Linear Algebra                |                  | Mathematical Analysis                 | Mathematics III                                | Mechanics                               |                  | Heat and Mass Transfer               | Environmental   |                                 |
|          | Linear Algebra                | VL 4             | Mathematical Analysis VL 4            | Analysis III VL 2                              | Fundamentals of Fluid<br>Mechanics      | VL 2             | Heat and Mass VL 2                   | Technology (part 2)                                   |                                 |
|          | Linear Algebra                | HÜ 2             | Mathematical Analysis HÜ 2            | Analysis III UE 1                              |   | HÜ 2             | Transfer                             | Practical Exercise PR 1 Environmental                 |                                 |
|          | Linear Algebra                | UE 2             | Mathematical Analysis UE 2            | Analysis III HÜ 1                              | Process Engineering                     | 110 2            | Heat and Mass UE 1 Transfer          | Technology  |                                 |
| 8        |                               |                  |                                       | Differential Equations VL 2                    |   |                  | Heat and Mass HÜ 1                   | Particle Technology and                               |                                 |
| 9        |                               |                  |                                       | Differential Equations UE 1                    |   |                  | Transfer                             | Solids Process  |                                 |
| 10       |                               |                  |                                       | 1  |   |                  |                                      | Engineering   |                                 |
| 11       |                               |                  |                                       | Differential Equations HÜ 1                    |   |                  |                                      | Particle Technology I VL 2                            |                                 |
| 13       |                               |                  |                                       | 1  | Electrical Machines                     |                  |                                      | Particle Technology I UE 1 Particle Technology I PR 2 |                                 |
| 14       |                               |                  |                                       |  | Electrical Machines                     | VL 3             | Thermal Separation Processes         | rancie reciniology i Tit 2                            |                                 |
| 15       | Electrical Engineering        | , I              | Electrical Engineering II             | Mechanics III (GES)                            | Electrical Machines                     | HÜ 2             | Thermal Separation VL 2              | Environmental Technology                              |                                 |
| 16       | Electrical Engineering        |                  | Electrical Engineering VL 3           | Mechanics III HÜ 1                             |   |                  | Processes Thermal Separation UE 2    | Environmental VL 2                                    |                                 |
|          | I                             |                  | II                                    | Mechanics III UE 2                             |   |                  | Processes                            | Assessment  |                                 |
|          | Electrical Engineering I      | UE 2             | Electrical Engineering UE 2           | Mechanics III VL 3                             |   |                  | Thermal Separation HÜ 1<br>Processes | Environmental UE 1<br>Assessment                      |                                 |
| 17       |                               |                  |                                       |  |   |                  | Separation Processes PR 1            | Process and Plant                                     |                                 |
| 18<br>19 |                               |                  |                                       |  | Renewables and Ene                      | ergy             |                                      | Engineering I   |                                 |
| 20       |                               |                  |                                       |  | Systems                                 | \ <i>(</i> 1 - 2 | Gas and Steam Power                  | Process and Plant VL 2 Engineering I                  | Bachelor Thesis                 |
| 21       | Machanica I (CES)             |                  | Mochanica II (GES)                    | Computor Engineering                           | 3,                                      | VL 2<br>VL 2     | Plants Gas and Steam Power VL 3      | Process and Plant HÜ 1                                |                                 |
| 22       | Mechanics I (GES) Mechanics I | VL 2             | Mechanics II (GES)  Mechanics II VL 2 | Computer Engineering Computer Engineering VL 3 | Enorgy Industry                         | VL Z             | Plants                               | Engineering I   |                                 |
|          |                               | VL Z<br>HÜ 3     | Mechanics II VE 2                     | Computer Engineering VE 3                      | Dower Industry                          | VL 1             | Gas and Steam Power HÜ 1             | Process and Plant UE 1                                |                                 |
|          |                               |                  | 110 2                                 | ,  |   | UE 1             | Plants                               | Engineering I   |                                 |
| 23       |                               |                  |                                       |  |   |                  |                                      |   |                                 |

| Technology for Mechanical and Process Engineers Measurement Technology for Mechanical and Process Engineers Practical Course: |
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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.