## **Module Overview B. Ed. Chemical Engineering (9 Semesters)**

Degree Programme Guidelines as per 01.10.2014, Version 01.10.2017

The degree programme consists of 180 Credit Points (CP) in total:

**Vocational Field of Studies** 

Specialised Science: 100 CP

Subject-related Didactics: 20 CP

→ Bachelor's Thesis: 10 CP

Non-Vocational Field of Studies

Specialised Science: 10 CP

→ Subject-related Didactics: 10 CP

**Educational** and

Social Sciences: 30 CP





This leads to the following *possible* part-time semester course schedule:

| 1. Semester   | 2. Semester   | 3. Semester  | 4. Semester   | 5. Semester                      | 6. Semester  | 7. Semester   | 8. Semester                          | 9. Semester   |
|---|---|--|---|----------------------------------|--|---|--------------------------------------|---|
| General<br>Chemistry<br>(8 CP)                                | Inorganic<br>Chemistry I –<br>Nonmetals<br>(4 CP)                             | Inorganic<br>Chemistry II –<br>Metals<br>(4 CP)                | Basic Laboratory<br>Course in Inorganic<br>Chemistry<br>(11 CP) | Organic<br>Chemistry I<br>(7 CP) | Organic<br>Chemistry II<br>(8 CP)  | Basic Laboratory<br>Course in<br>Organic Chemistry I<br>(10 CP) | Inter-Semester<br>Teamwork<br>(6 CP) | Basic Laboratory Course and Organic Chemistry II Demonstration Experiments (7 CP) |
| Inorganic-<br>Analytic Chemistry<br>(3 CP)                    | Physical<br>Chemistry A<br>(4 CP)   | Physical<br>Chemistry B<br>(4 CP)                              | Basic Laboratory<br>Course in Physical<br>Chemistry<br>(3 CP)   | Technical Didactics<br>(5 CP)    | "DaMocles"<br>Project<br>(2 CP)  |   | Bachelor's Thesis<br>(10 CP)         |   |
| Basic Laboratory<br>Course in Analytic<br>Chemistry<br>(5 CP) | Technical<br>Chemistry I<br>(7 CP)  | Basic Laboratory<br>Course<br>Technical<br>Chemistry<br>(7 CP) | Elective Subjects Chemistry<br>(15 CP)                          |                                  |  |   |                                      |   |
| Fundamentals of<br>Vocational<br>Pedagogy<br>(5 CP)           | Teaching and Learning in<br>Vocational Education<br>(9 CP)                    |  |   |                                  | Non-Vocational Field of Studies: Specialised Science (10 CP)  Non-Vocational Field of Studies: Subject-related Didactics (10 CP) |   |                                      |   |
|   |   |  |   |                                  |  |   |                                      |   |
|   | School practical Studies or<br>Practical extracurricular Studies I<br>(10 CP) |  | Social Sciences<br>(6 CP)                                       |                                  |  |   |                                      |   |
| Ø 20 CP   | Ø 20 CP   | Ø 20 CP  | Ø 20 CP   | Ø 20 CP                          | Ø 20 CP  | Ø 20 CP   | Ø 20 CP                              | Ø 20 CP   |