

# Course of Study Environmental Engineering (Study Cohort w20)

Sample course plan B Master Environmental Engineering (IMPEE)

|   |  | Core Qualification Compulsory          |        | Specialisation Compulsory                                    |     | Focus Compulsory          |        | Thesis Compulsory  |     |      |        |                      |  |      |        |
|---|--|--|--------|--|-----|---------------------------|--------|--|-----|------|--------|----------------------|--|------|--------|
|   |  | Core Qualification Elective Compulsory |        | Specialisation Elective Compulsory                           |     | Focus Elective Compulsory |        | Interdisciplinary complement                                 |     |      |        |                      |  |      |        |
| Specialisation Waste and Energy                         |  | Form                                   | Hrs/wk | Semester 2   |     | Form                      | Hrs/wk | Semester 3   |     | Form | Hrs/wk | Semester 4           |  | Form | Hrs/wk |
| 1   | <b>Waste Treatment Technologies</b>  |  |        | <b>Geochemical Engineering</b>                               |     |                           |        | <b>Study Work Waste and Energy</b>                           |     |      |        | <b>Master Thesis</b> |  |      |        |
| 2   | Biological Waste Treatment   | PBL                                    | 3      | Geochemical Engineering                                      | VL  | 2                         |        |  |     |      |        |                      |  |      |        |
| 3   | Waste and Environmental Chemistry  | PR                                     | 2      | Contaminated Sites and Landfilling                           | VL  | 2                         |        |  |     |      |        |                      |  |      |        |
| 4   |  |  |        | Contaminated Sites and Landfilling                           | HÜ  | 1                         |        |  |     |      |        |                      |  |      |        |
| 5   |  |  |        |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 6   |  |  |        |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 7   | <b>Environmental Protection and Management</b>                                     |  |        | <b>Technical Microbiology</b>                                |     |                           |        |  |     |      |        |                      |  |      |        |
| 8   | Health, Safety and Environmental Management  | VL                                     | 2      | Applied Molecular Biology                                    | VL  | 2                         |        |  |     |      |        |                      |  |      |        |
| 9   | Health, Safety and Environmental Management  | GÜ                                     | 1      | Technical Microbiology                                       | VL  | 2                         |        |  |     |      |        |                      |  |      |        |
| 10  | Integrated Pollution Control   | VL                                     | 2      | Technical Microbiology                                       | HÜ  | 1                         |        |  |     |      |        |                      |  |      |        |
| 11  |  |  |        |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 12  |  |  |        |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 13  | <b>Sustainable Water Management and Microbiology of Water Systems</b>              |  |        | <b>Selected Topics in Environmental Engineering (part 1)</b> |     |                           |        | <b>Selected Topics in Environmental Engineering (part 2)</b> |     |      |        |                      |  |      |        |
| 14  | Sustainable Water Management   | PBL                                    | 2      | Selection from a catalog                                     |     |                           |        | Selection from a catalog                                     |     |      |        |                      |  |      |        |
| 15  | Microbiology of water systems  | VL                                     | 2      |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 16  |  |  |        | <b>Waste and Energy</b>                                      |     |                           |        | <b>Special Aspects of Waste Resource Management</b>          |     |      |        |                      |  |      |        |
| 17  |  |  |        | Waste Recycling Technologies                                 | VL  | 2                         |        | International Waste Management                               | PBL | 2    |        |                      |  |      |        |
| 18  |  |  |        | Waste Recycling Technologies                                 | GÜ  | 1                         |        | Advanced Topics in Waste Resource Management                 | PBL | 3    |        |                      |  |      |        |
| 19  |  |  |        | Waste to Energy  | PBL | 2                         |        |  |     |      |        |                      |  |      |        |
| 19  | <b>Environmental Analysis and water technology practice</b>                        |  |        |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 20  | Environmental Analysis   | VL                                     | 2      |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 21  | Practical Course in Water and Wastewater Technology I                              | PR                                     | 2      |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 22  |  |  |        |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 23  |  |  |        |  |     |                           |        | <b>Wastewater Treatment and Air Pollution Abatement</b>      |     |      |        |                      |  |      |        |
| 24  |  |  |        |  |     |                           |        | Air Pollution Abatement                                      | VL  | 2    |        |                      |  |      |        |
| 25  |  |  |        |  |     |                           |        | Biological Wastewater Treatment                              | VL  | 2    |        |                      |  |      |        |
| 25  | <b>Fluid Mechanics, Hydraulics and Geo-information-systems in Water Management</b> |  |        |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 26  | Geo-Information-Systems in Water Management and Hydraulic Engineering              | PBL                                    | 2      |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 27  | Fluid Mechanics and Hydraulics   | VL                                     | 2      |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 28  | Fluid Mechanics and Hydraulics   | GÜ                                     | 1      |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 29  |  |  |        |  |     |                           |        |  |     |      |        |                      |  |      |        |
| 30  |  |  |        |  |     |                           |        |  |     |      |        |                      |  |      |        |
| Business & Management (from catalogue) - 6LP            |  |  |        |  |     |                           |        |  |     |      |        |                      |  |      |        |
| Non-technical Courses for Master (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.

