

# Course of Study Environmental Engineering (Study Cohort w23)

Sample course plan C 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 Water Quality and Water Engineering      |  |  |  |
|---|--|--|--|
| 1   | <b>Waste Treatment Technologies</b>  |  | <b>Hydrological Systems</b>                                  |
| 2   | Biological Waste Treatment PBL 3   |  | Applied Surface Hydrology VL 2                               |
| 3   | Waste and Environmental Chemistry PR 2   |  | Interaction Water - Environment in Fluvial Areas PBL 1       |
| 4   |  |  | Applied Surface Hydrology PBL 1                              |
| 5   |  |  |  |
| 6   |  |  |  |
| 7   | <b>Sustainable Water Management and Microbiology of Water Systems</b>              |  | <b>Selected Topics in Environmental Engineering (part 1)</b> |
| 8   | Sustainable Water Management PBL 2   |  | Selection from a catalog                                     |
| 9   | Microbiology of water systems VL 2   |  |  |
| 10  |  |  | <b>Advanced Vadose Zone Hydrology</b>                        |
| 11  |  |  | Vadose Zone Hydrology VL 2                                   |
| 12  |  |  | Vadose Zone Hydrology HÜ 2                                   |
| 13  | <b>Environmental Analysis and Water Technology Practice</b>                        |  | <b>Selected Topics in Environmental Engineering (part 2)</b> |
| 14  | Environmental Analysis VL 2  |  | Selection from a catalog                                     |
| 15  | Practical Course in Water and Wastewater Technology I PR 3                         |  |  |
| 16  |  |  | <b>Coastal Hydraulic Engineering I</b>                       |
| 17  |  |  | Basics of Coastal Engineering VL 3                           |
| 18  |  |  | Basics of Coastal Engineering PBL 1                          |
| 19  | <b>Fluid Mechanics, Hydraulics and Geo-Information-Systems in Water Management</b> |  | <b>Water Protection</b>                                      |
| 20  | Geo-Information-Systems in Water Management and Hydraulic Engineering PBL 2        |  | Water Protection and Wastewater Management VL 3              |
| 21  | Fluid Mechanics and Hydraulics VL 2  |  | Water Protection and Wastewater Management PS 3              |
| 22  | Fluid Mechanics and Hydraulics GÜ 1  |  |  |
| 23  |  |  | <b>Smart Monitoring</b>                                      |
| 24  |  |  | Smart Monitoring IV 2  |
| 25  | <b>Subsurface Processes</b>  |  | Smart Monitoring GÜ 2  |
| 26  | Subsurface Solute Transport VL 2   |  |  |
| 27  | Subsurface Solute Transport HÜ 1   |  |  |
| 28  | Modeling of Subsurface Processes GÜ 3  |  |  |
| 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.

