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| **Master's Programme in Water and Environmental Engineering (WAT)** |  |
| **Major studies (60 cr)** |  |
| **Common studies (compulsory courses, 15 cr)** |  |
|        | **Code**  | **Name** | **Cr** | **Substitutive course** | **Cr** |
| WAT-E1011 | Water & Environmental Engineering |  10 |  | 5 |
| WAT-E1030 | Computational Methods in Water and Environmental Engineering |  5 |  | 5 |
|  |  |
|       | **Code** | **Name** | **Cr**  |  |  |
| WAT-E2010 | Groundwater Hydrology |  5 |  |  |
| WAT-E2020 | Environmental Hydraulics |  5 |  |  |
| WAT-E2030 | Hydrological Modelling |  5 |  |  |
| WAT-E2040  | Surface Water Resources |  5 |  |  |
| WAT-E2060 | Sustainable Built Environment |  5 |  | 5 |
| WAT-E2070 | Sustainability Global Technologies (SGT) Studio |  10 |  |  |
| WAT-E2080 | Water and Governance |  5  |  | 5 |
| WAT-E2090 | Water and People in a Changing World |  5 |  | 5 |
| WAT-E2100 | Urban Water Systems |  5 |  |  |
| WAT-E2110 | Design and Management of Water and Wastewater Networks |  5 |  | 5 |
|  | WAT-E2120 | Physical and Chemical Treatment of Water and Waste |  5 |  |  |
|  | WAT-E2130 | Modelling and Control of Water and Wastewater Treatment Processes |  5 |  |  |
|  | WAT-E2140 | Sustainability in Environmental Engineering |  5 |  | 5 |
|  | WAT-E2150 | Environmental Risk Analysis |  5 |  |  |
|  | WAT-E2170 | Circular Economy in Environmental Engineering |  5 |  | 5 |
|  | WAT-E2180 | Biological Treatment of Water and Waste |  5 |  |  |
|  | WAT-E3010 | Special Course on Water & EnvironmentalEngineering |  5 |  | 5 |
|  | WAT-E3020 | State of the World and Development |  2 |  |  |
|  | CHEM-E6125 | Environmental Management in Industry |  5 |  | 5 |
| **Master’s thesis (30 cr)**  |  |
|   | **Code** | **Name** | **Cr**  |  |  |
| BE.thes | Master's thesis (+ maturity test) |  30 |  |  |
| **Elective studies (30 cr)** |  |  |  |
| **Code** | **Name** |  | **Cr**  |
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| **Study plan approved by professor in charge of the programme**  |
|  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Professor Riku Vahala |