APPENDIX A to the Addendum for Double Master's Degrees between Chalmers Tekniska Högskola and Universität Stuttgart Double Master's Degree Scheme

The attached MACROPLAN depicts the 2-year MSc double degree structure in **Infrastructure and Environmental Engineering at Chalmers** and in **Water Resources Engineering and Management (WAREM) at U Stuttgart**. It shows the compulsory and elective courses in each semester as well as the prerequisites for students wishing to spend their 2nd year at the partner Institution

1. Semester		2. Semester		3. Semester		4. Semester	
Chalmers students in Chalmers	**Stuttgart students in Stuttgart**	**Chalmers students in Chalmers**	**Stuttgart students in Stuttgart**	**Chalmers students in Stuttgart**	**Stuttgart students in Chalmers**	**Chalmers students in Stuttgart**	**Stuttgart students in Chalmers**
Infrastructure and Urban Systems (7.5 ECTS) **Geological and Geotechnical Site Characterisa (7.5 ECTS)** **Sustainable Urban Water Engineering (7.5 ECTS)** **Transportation Engineering and Traffic Analysis (7.5 ECTS)**	**Sanitary Engineering (6 ECTS)** **Environmental Fluid Mechanics I (6 ECTS)** **German Language or key qualifications (3 ECTS)** **Choose 3 out of the following modules** Chemistry and Biology for Environmental Engineers (6 ECTS) Water and Power Supply (6 ECTS) Regional and Urban Planning I (6 ECTS) Data and Statistics (6 ECTS) Hydraulic Structures (1) (3 ECTS)[1] Geohydrology and Geoengineering (6 ECTS) Python Programming for Water Resources Engineering and Research (6 ECTS)	**Drinking Water Engineering (7.5 ECTS)** Risk Control and Decision Support (7.5 ECTS) **Advanced Wastewater Engineering (7.5 ECTS)** **Hydrogeology (7.5 ECTS)**	**Urban Drainage and Design of Wastewater Treatment Plants (6 ECTS)** or **Integrated Watershed Modeling (6 ECTS)** **German Language or key qualifications (3 ECTS)** **Choose 3 out of the following modules** Regional and Urban Planning II (6 ECTS) Water Quality and Treatment (6 ECTS) Constructed Wetlands for Wastewater Treatment (3 ECTS) Hydraulic Structures (2) (3 ECTS)[1] Hydrogeological Investigation (6 ECTS) Integrated River Management and Engineering (6 ECTS) Modelling of Hydrosystems (6 ECTS)	**Choose five out of the following modules** Industrial Waste Water (6 ECTS) Contaminated Site Remediation and Investigation Technologies (6 ECTS) Water Management and Irrigation Facilities (6 ECTS) Chemistry and Biology for Environmental Engineers (6 ECTS) Environmental Fluid Mechanics I (6 ECTS) Planning and Design of Water Supply Facilities (6 ECTS) Structural Engineering of Hydraulic Structures (6 ECTS) Python Programming for Water Resources Engineering and Research (6 ECTS) Thermal Treatment of Sewage Sludge, Phosphorus Recycling and related Application of the right to access environmental Information (6 ECTS)	Infrastructure and Urban Systems (7.5 ECTS) Water Systems and Modelling (7.5 ECTS) Sustainable Urban Water Engineering (7.5 ECTS) Elective course (Urban Metabolism and Resources; Contaminated Sites and Remediation; or other) (7.5 ECTS)	**Master's Thesis** (30 ECTS)	**Master's Thesis** (30 ECTS)
Σ ECTS = 30	**Σ ECTS = 33**	**Σ ECTS = 30**	**Σ ECTS = 27**	**Σ ECTS = 30**	**Σ ECTS = 30**	**Σ ECTS = 30**	**Σ ECTS = 30**
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Compulsory modules in bold

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