

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 Characterisation (7.5 ECTS) Sustainable Urban Water Engineering (7.5 ECTS) Transportation Engineering and Traffic Analysis (7.5 ECTS)	Chemistry and Biology for Environmental Engineers (6 ECTS) Sanitary Engineering (6 ECTS) Environmental Fluid Mechanics I (6 ECTS) Requirements of Professional Life and Engineering in Practice (1) (1,5 ECTS)¹ German Language or key qualifications (3 ECTS) Water and Power Supply (6 ECTS) Regional and Urban Planning I (6 ECTS) Data, Statistics and Optimization (6 ECTS) Hydraulic Structures (1) (3 ECTS) ¹ Geohydrology and Geoen지니어ing (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) Requirements of Professional Life and Engineering in Practice (2) (1,5 ECTS) German Language or key qualifications (3 ECTS) Regional and Urban Planning 2 (6 ECTS) Integrated Watershed Modelling (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) Measurements in the Water Cycle (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) Hydraulic Structures (1) (3 ECTS) ¹ 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) Hydraulic Structures (2) (3 ECTS) ¹	Master's Thesis (30 ECTS)
Σ ECTS = 30	Σ ECTS = 28,5	Σ ECTS = 30	Σ ECTS = 31,5	Σ ECTS = 30/27	Σ ECTS = 30	Σ ECTS = 30/33	Σ ECTS = 30
Prerequisites:	US students have to select special section 3 "Sanitary Engineering and Water Quality Management" in their study plan US students may not select the module "Water Quality and Treatment" (2 nd semester) as part of their studies in Stuttgart Chalmers students have to select the modules "Drinking Water Engineering" and "Advanced Wastewater Engineering" (2 nd semester) as part of their studies in Chalmers						
Compulsory modules in bold				Date: 23-11- 2020			

¹ The modules "Requirements of Professional Life and Engineering in Practice (3.0 ECTS)" and "Hydraulic Structures (6 ECTS)" are divided into 2 semesters. The ECTS can only be acquired if both parts have been completed.