

## APPENDIX A to the Addendum for Double Master's Degrees between Chalmers tekniska högskola and Universitat 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 2<sup>nd</sup> 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)	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) <sup>1</sup> German Language or key qualifications (3 ECTS) Water and Power Supply (6 ECTS) Regional and Urban Planning (6 ECTS) Data, Statistics and Optimization (6 ECTS) Hydraulic Structures (1) (3 ECTS) <sup>1</sup> Geohydrology and Geoengineering (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) <sup>1</sup> Hydrogeological Investigation (6 ECTS) Integrated River Management and Engineering (6 ECTS) Modelling of Hydrosystems (6 ECTS) Measurements in the Water Cycle (6 ECTS) Planning and Design of Water Supply Facilities (6 ECTS)	Industrial Waste Water (6 ECTS) Project Preparation, Management and Finance (6 ECTS) Data, Statistics and Optimization (6 ECTS) Stochastical Modelling and Geostatistics (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) <sup>1</sup> Special Aspects of Urban Water Management (6 ECTS) <sup>*</sup>	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) <sup>1</sup>	Master's Thesis (30 ECTS)
<b>Σ ECTS = 30</b>	<b>Σ ECTS = 28,5</b>	<b>Σ ECTS = 30</b>	<b>Σ ECTS = 31,5</b>	<b>Σ ECTS = 30/27</b>	<b>Σ ECTS = 30</b>	<b>Σ ECTS = 30/33</b>	<b>Σ ECTS = 30</b>
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 <sup>nd</sup> semester) as part of their studies in Stuttgart Chalmers students have to select the modules "Drinking Water Engineering" and "Advanced Wastewater Engineering" (2 <sup>nd</sup> semester) as part of their studies in Chalmers						
Compulsory modules in bold	Date: 29-05-2018						

<sup>1</sup> 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.

S. P. L.