

Water Engineering and Management 2024-2025

PROFILES

Integrated Water Management			River and Coastal Engineering		
Profile Courses (≥25 EC)	EC	Quartile	Profile Courses (≥25 EC)	EC	Quartile
Civil Engineering Challenges*	5	1	Civil Engineering Challenges*	5	1
Water Footprint Assessment	5	1	River Flow Processes	5	1
Hydrology	5	1	Long Waves and Tidal Morphodynamics	5	1
Hydrological Modelling and Forecasting	5	2	Wave-Dominated Coastal Dynamics	5	1
Sustainable Engineering	5	3	Morphology*	5	2
Integrated Water Management	5	3	Mathematical Physics of Water Systems	5	3
Urban Resilience in a Changing Climate	5	3	Hydraulic Modelling	5	3
Water and Climate	5	4	River Morphodynamics	5	4
Profile Electives (~40 EC)			Profile Electives (~40 EC)		
- Free to choose any of the CEM courses offered (pay attention to the required prior knowledge)			- Free to choose any of the CEM courses offered (pay attention to the required prior knowledge)		
- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)			- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)		
Suggested Profile Electives	EC	Quartile	Suggested Profile Electives	EC	Quartile
Water Quality	5	1	Water Quality	5	1
River Flow Processes	5	1	Hydrology	5	1
Data Analysis in Water Engineering and Management	5	2	Data Analysis in Water Engineering and Management	5	2
Circular Systems Engineering	5	3	Hydrological Modelling and Forecasting	5	2
Hydraulic Engineering	5	3	Hydraulic Engineering	5	3
Building with Nature	5	4	Advanced Soil Mechanics	5	3
			Building with Nature	5	4
			Water and Climate	5	4
			Geo Risk Assessment	5	4

GENERAL COURSES

Free Electives (max 15 EC)	EC	Quartile	Free Electives (max 15 EC)	EC	Quartile
Any course from UT or approved other university**			Any course from UT or approved other university**		
On the CEM/CME Canvas page there is a list of courses from other MSc programmes available that fit this track. In some occasions, you can include courses from other programmes as a profile elective. In that case you need approval of your track-coordinator.			On the CEM/CME Canvas page there is a list of courses from other MSc programmes available that fit this track. In some occasions, you can include courses from other programmes as a profile elective. In that case you need approval of your track-coordinator.		
Other usefull courses (0 EC)	EC	Quartile	Other usefull courses (0 EC)	EC	Quartile
Boost your Competences	0	1,2,3,4	Boost your Competences	0	1,2,3,4
Thesis ***	EC	Quartile	Thesis ***	EC	Quartile
Academic Research Skills in CEM/CME	5	2,4	Academic Research Skills in CEM/CME	5	2,4
Preparation Master Thesis	5	-	Preparation Master Thesis	5	-
Master Thesis Water	30	-	Master Thesis Water	30	-

PLANNING AND CONSULTATION FOR THE MASTER PROFILES

Track-coordinator: Dr.ir. Bas Borsje
Coordinator Master Thesis: Dr.ir. Martijn Boij

* Second year MSc course

** an "approved university" is any university in The Netherlands (not HBO-schools), or any international university that is partner of the UT or of the faculty of ET.

The Free Electives should be at MSc-level and should have no overlap with other courses in your programme. For courses from other universities, contact your track-coordinator.

*** [Click here for the procedure of how to start the course Preparation MSc-thesis and your MSc-thesis project](#)