

## Water Engineering and Management

Integrated Water Management			River and Coastal Engineering		
Profile Courses (minimum 30 EC)	EC	Quartile	Profile Courses (minimum 30 EC)	EC	Quartile
Water Footprint Assessment	5	1	River Flow & Sediment Transport	5	1
Hydrology	5	1	Long Waves and Tidal Morphodynamics	5	1
Water and Energy	5	2	Short Waves and Coastal Dynamics	5	1
Hydrological Modelling and Forecasting	5	2	Advanced Research Skills in River and Coastal Engineering	5	2
Regional Flood Management	5	3	Morphology	5	2
Water Management and Governance for Engineering	5	3	Mathematical Physics of Water Systems	5	3
Urban Water Management	5	4	River Morphodynamics	5	4
Water and Climate	5	4			
<b>Profile Electives</b> <i>- Free to choose any of the CEM courses on offer</i> (pay attention to the required prior knowledge) <i>- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)</i> <i>- Below: courses from other programmes that fit in this profile</i> (If you include courses from other programmes, we recommend you to make a selection, such that the majority of the programme is still formed by CEM-courses)			<b>Profile Electives</b> <i>- Free to choose any of the CEM courses on offer</i> (pay attention to the required prior knowledge) <i>- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)</i> <i>- Below: courses from other programmes that fit in this profile</i> (If you include courses from other programmes, we recommend you to make a selection, such that the majority of the programme is still formed by CEM-courses)		
Water Quality	5	1	Water Quality	5	1
River Flow & Sediment Transport	5	1	Hydrology	5	1
Data Analysis in Water Engineering and Management	5	2	Data Analysis in Water Engineering and Management	5	2
Experiments in Water Infrastructure	5	2	Hydrological Modelling and Forecasting	5	2
Systems Engineering in Construction	5	3	Hydraulic Engineering	5	3
Hydraulic Engineering	5	3	Geo Risk Assessment	5	3
Building with Nature	5	4	Building with Nature	5	4
			Water and Climate	5	4
			Advanced Soil Mechanics	5	4
Policy Instr and Evaluation in Environm+Sust. (PA) 194	5	3	Fluid Mechanics II (ME) 201500136	5	1
Policy Analysis in Public & Technol.Domains (PA) 2011	5	1	Transport Phenomena (ME) 191141700	5	1
Economic Methods of Sustainability Assess. (PA) 2011	5	1	Numerical Methods in ME (ME) 191157710	5	1 or 2
Public Governance and Policy Networks (PA) 1941112	5	3	Data Science (CSC)	5	2 or 3
Policy Strat.&Impl. for Water Govern+Sust. Issues (ME)	4	1	Wave Motion (ME) 191154770	5	2
Sustainable Management Strat. and Innovation (MEEM)	4	1	Turbulence (AP) 193580010	5	2
Energy Management, Policy and Technology (MEEM)	4	2	Introduction to Partial Differential Equations (AM) 191550105	5	3
Environment and Technology (MEEM)	4	2	Introduction to Finite Elements (part mod11 WB) 201400311	± 3	3
Data Science (CSC)	5	2 or 3	Applied Finite Elements for PDE (AM) 191551161	6	3 or 4
			Comp.Fluid Dynamics (ME) 191154731	5	4
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*		
Thesis **	EC	Quartile	Thesis **	EC	Quartile
Preparation Master Thesis	5 or 10	-	Preparation Master Thesis	5 or 10	-
Master Thesis Water	30	-	Master Thesis Water	30	-

### PLANNING AND CONSULTATION FOR THE MASTER PROFILES

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Coordinator Master Theses: dr. ir. Martijn Booij