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 (Year 2; check Osiris for prerequisites)	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			
Profile Electives ***- Free to choose any of the CEM courses on offer*** *(pay attention to the required prior knowledge)* ***- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)*** ***- Below: courses from other programmes that fit in this profile*** *(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)*			**Profile Electives** ***- Free to choose any of the CEM courses on offer*** *(pay attention to the required prior knowledge)* ***- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)*** ***- Below: courses from other programmes that fit in this profile*** *(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 Management	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)	5	3	Fluid Mechanics II (ME)	5	1
Policy Analysis in Public & Technol.Domains (PA)	5	1	Transport Phenomena (ME)	5	1
Economic Methods of Sustainability Assess. (PA)	5	1	Numerical Methods in ME (ME)	5	1
Public Governance & Policy Networks (PA)	5	3	Data Science (CSC)	5	2 or 3
Policy Strat.&Impl. for Water Govern+Sust. Issues (MEEM)	4	1	Turbulence (AP)	5	2
Sustainable Management Strat. and Innovation (MEEM)	4	1	Introduction to Partial Differential Equations (AM)	5	3
Energy Management, Policy and Technology (MEEM)	4	2	Introduction to Finite Elements (part mod11 WB)	± 3	3
Environment and Technology (MEEM)	4	2	Applied Finite Elements for PDE (AM)	6	3 or 4
Data Science (CSC)	5	2 or 3	Comp.Fluid Dynamics (ME)	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