Please note: this overview is 2 pages

Course code	Course name	ECTS	Language	Compulsory?	Education periods	Academic year 1				Academic year 2			
						Semester 1		Semester 2		Semester 3		Semester 4	
						Edu. Per. 1	Edu. Per. 2	Edu. Per. 3	Edu. Per. 4	Edu. Per. 1	Edu. Per. 2	Edu. Per. 3	Edu. Per. 4
CIE5030	MSc Thesis CoMEM	30	EN	Y	1, 2, 3, 4, 5								
CIE5060-09	MSc Thesis	40	EN	Y	1, 2, 3, 4, 5								
Ethics courses, choose one out of 5													
WM0312CIE	Philosophy, Technology Assessment and Ethics for CT	4	EN	N	4								
CIE4510-20	Climate Change: Science & Ethics	4	EN	N	2								
WM1302TU	Ethics of Transportation	5	EN	N	3								
WM0376TU	Ethics of Technological Risks	5	EN	N	3								
TPM003A	Water Ethics	5	EN	N	4								
Electives, choose one out of 3													
CIE4040-09	Internship	10	EN	N	1, 2, 3, 4, 5								
CIE4061-09	Multidisciplinary Project, Civil Engineering Consultancy Project	10	EN	N	1, 2, 3, 4, 5								
CIE5050-09	Additional Graduation Work, Research Project	10	EN	N	1, 2, 3, 4, 5								
CEG general elective courses for all tracks													
CIE4381	Engineering Asset Management	4	EN	N	1								
CIE4391	Quantitative Asset Modelling	4	EN	N	4								
CIE4420	Principles of Geohydrology	4	EN	N	3								
Deficiency course voor WO (zij)instromers													
CTB2001WO-20	Computer Programmeren WO-instromers	2	EN	N	1, 2								
MSc Honours Programme													
CIEAESM4010	Honours Programme MSc Research project	10	EN	N	1, 2, 3, 4								
CIEAESM4015	Honours Programme MSc Research project	15	EN	N	1, 2, 3, 4								
MSc CE, track Hydraulic Engineering													
Compulsory courses (adding up to 24 EC)													
CIE4130	Probabilistic Design and Risk Management	4	EN	Y	2								
CIE4305	Coastal Dynamics 1	6	EN	Y	3								
CIE4310	Bed, Bank and Shore Protection	4	EN	Y	2								
CIE4325	Ocean Waves	6	EN	Y	1								
CIE4345	River Dynamics 1	4	EN	Y	1								
CIE3310-09 (als niet i	Open Channel Flow	4	EN	Y	3								
CIE3330 (als niet in B	Hydraulic Structures 1	4	EN	Y	3								
Additional block Coastal Engineering (adding up to 17 EC)													
CIE4309	Coastal Dynamics 2	5	EN	Y	4								
CIE4330	Ports & Waterways 1	4	EN	Y	1								
CIE4340	Computational Modelling of Flow and Transport	4	EN	Y	1, 2								
CIE5308	Breakwaters and Closure Dams	4	EN	Y	3								
Additional block River Engineering (adding up to 19 EC)													
CIE4330	Ports & Waterways 1	4	EN	Y	1								
CIE4340	Computational Modelling of Flow and Transport	4	EN	Y	1, 2								
CIE5300	Dredging Technology	4	EN	Y	1								
CIE5311	River Dynamics 2	4	EN	Y	2								
CIE5315	Computational Hydraulics	3	EN	Y	4								
Additional block Dredging Engineering (adding up to 19 EC)													
CIE4330	Ports & Waterways 1	4	EN	Y	1								
CIE5300	Dredging Technology	4	EN	Y	1								
CIE5311	River Dynamics 2	4	EN	Y	2								
OE44035	Dredging Pumps and Slurry Transport	4	EN	Y	3								
OE44040	Dredging Processes I	4	EN	Y	2								
Additional block Ports and Waterways (adding up to 20 EC)													
CIE4330	Ports & Waterways 1	4	EN	Y	1								
CIE4340	Computational Modelling of Flow and Transport	4	EN	Y	1, 2								
CIE5300	Dredging Technology	4	EN	Y	1								
CIE5306	Ports and Waterways 2	4	EN	Y	4								
CIE5311	River Dynamics 2	4	EN	Y	2								
Additional block Environmental Fluid Mechanics (adding up to 16 EC)													
CIE4340	Computational Modelling of Flow and Transport	4	EN	Y	1, 2								
CIE5312	Turbulence in Hydraulics	3	EN	Y	3								
CIE5315	Computational Hydraulics	3	EN	Y	4								
CIE5325	Coastal and Basin-scale Physical Oceanography	6	EN	Y	2								
Additional block Hydraulic Structures (adding up to 24 EC)													
CIE3109-09 (niet als (	Structural Mechanics 4	4	EN	Y	3								
CIE3150 (als niet CTB	Concrete Structures 2	4	EN	Y	3								
CIE4140	Structural Dynamics	4	EN	Y	3								
CIE4170	Construction Technology of Civil Engineering Structures	4	EN	Y	4								
CIE5260	Structural Response to Earthquakes	4	EN	Y	1								
CIE5313-18	Hydraulic Structures 2	3	EN	Y	4								
Additional block Flood Risk (adding up to 11 EC)													
CIE4420	Principles of Geohydrology	4	EN	Y	3								
CIE5310	Probabilistic Design in Hydraulic Engineering	3	EN	Y	4								
CIE5314-19	Flood Defences	4	EN	Y	4								

Students who have opted for Flood Risk must complete at least 10 EC chosen from the following subjects													
CIE4140	Structural Dynamics	4	EN	N	3								
CIE4308	Sediment Dynamics	3	EN	N	4								
CIE4330	Ports & Waterways 1	4	EN	N	1								
CIE4367-16	Design of Embankments	3	EN	N	3								
CIE4390	Geo-risk Management	3	EN	N	2								
CIE4395	Risk and Variability in Geo-Engineering	4	EN	N	4								
CIE4460	Polders and Flood Control	4	EN	N	4								
CIE5308	Breakwaters and Closure Dams	4	EN	N	3								
CIE5311	River Dynamics 2	4	EN	N	2								
CIE5313-18	Hydraulic Structures 2	3	EN	N	4								
CIE5401	GIS & Remote Sensing for water resources	3	EN	N	3								
WI4052	Risk Analysis	6	EN	N	1, 2								
Electives													
CIE3109-09 niet als C	Structural Mechanics 4	4	EN	N	3								
CIE3150 (als niet in B	Concrete Structures 2	4	EN	N	3								
CIE3325 (als niet in B	Mechanics and Flow in Poreus Media	4	EN	N	3								
CIE3410-09 (niet als i	Water System Analysis	4	EN	N	1, 3								
CIE4120	Information Systems for the Construction Industry	4	EN	N	3								
CIE4140	Structural Dynamics	4	EN	N	3								
CIE4145-09 (for forei	Dynamics and Introduction to Continuum Mechanics	4	EN	N	1, 2								
CIE4160	Prestressed Concrete	4	EN	N	1								
CIE4170	Construction Technology of Civil Engineering Structures	4	EN	N	4								
CIE4180	Plates and Slabs	4	EN	N	2								
CIE4190	Analysis of Slender Structures	4	EN	N	1								
CIE4301	Building with Nature in Hydraulic Engineering	5	EN	N	4								
CIE4308	Sediment Dynamics	3	EN	N	4								
CIE4309	Coastal Dynamics 2	5	EN	N	4								
CIE4320	Vibration-based Monitoring and Identification	4	EN	N	1								
CIE4330	Ports & Waterways 1	4	EN	N	1								
CIE4340	Computational Modelling of Flow and Transport	4	EN	N	1, 2								
CIE4361	Behaviour of Soils and Rocks	6	EN	N	2								
CIE4362-20	Soil-structure Interaction	4	EN	N	4								
CIE4363	Deep Excavations	4	EN	N	1								
CIE4367-16	Design of Embankments	3	EN	N	3								
CIE4381	Engineering Asset Management	4	EN	N	1								
CIE4390	Geo-risk Management	3	EN	N	2								
CIE4395	Risk and Variability in Geo-Engineering	4	EN	N	4								
CIE4400	Hydroeconomic Modelling	4	EN	N	4								
CIE4460	Polders and Flood Control	4	EN	N	4								
CIE4481	System Engineering Management	4	EN	N	3								
CIE5260	Structural Response to Earthquakes	4	EN	Y	1								
CIE5300	Dredging Technology	4	EN	N	1								
CIE5304	Waterpower Engineering	3	EN	N	4								
CIE5305	Bored and Immersed Tunneling	4	EN	N	1								
CIE5306	Ports and Waterways 2	4	EN	N	4								
CIE5308	Breakwaters and Closure Dams	4	EN	N	3								
CIE5310	Probabilistic Design in Hydraulic Engineering	3	EN	N	4								
CIE5311	River Dynamics 2	4	EN	N	2								
CIE5312	Turbulence in Hydraulics	3	EN	N	3								
CIE5313-18	Hydraulic Structures 2	3	EN	N	4								
CIE5314-19	Flood Defences	4	EN	N	4								
CIE5315	Computational Hydraulics	3	EN	N	4								
CIE5318	Fieldwork Hydraulic Engineering	4	EN	N	1								
CIE5325	Coastal and Basin-scale Physical Oceanography	6	EN	N	2								
CIE5401	GIS & Remote Sensing for water resources	3	EN	N	3								
CIE5450	Hydrology of Catchments, Rivers and Landscapes	4	EN	N	2								
CIE5490	Operational Water Management	4	EN	N	3								
OE44030	Offshore Geotechnical Engineering	4	EN	N	3								
OE44035	Dredging Pumps and Slurry Transport	4	EN	N	3								
OE44040	Dredging Processes I	4	EN	N	2								
OE44115	Arctic Engineering	4	EN	N	4								
Overig													
CIEEXCH	Complementary Research Project for Exchange Students	5	EN	N	1, 2, 3, 4, 5								
CIE0009	Open Course CIE		EN	N	1, 2, 3, 4, 5								

Legenda	
	Scheduling in year 1 / year 2 and EC