

Module shared with another track

Track 1-a

Track number and a letter, showing that there is a common part shared with other tracks, with profile/track specific applications

MSc Programmes Curricula - 2025-2026

Modules imposed by joint programmes

Modules with modified TITLE

Version: August 16, 2025

Date		3 - 14 November	17 – 28 November	1 – 19 December	5 – 9 Jan	12 – 30 January	2 – 6 Feb	9 – 27 February	2 – 20 March	23 – 27 March	30 March – 17 April	20 – 24 April	27 April – 22 May	25 May – 26 June	29 June - 3 July	6 July – 2 October	5 - 9 October	12 - 16 October
Term		T01	T02	T03	MW	T04	MW	T05	T06	MW	T07	MW	T08	T09	T010			
Thematic track 1: Water Hazards, Risk and Climate	Engineering Sciences	M080	M001	M002 Introduction to Coastal Sci & Eng M030 Urban Drainage and Sewerage M010 Hydrology and Ecosystems M011 Modelling Theory and Computational Methods in Hydraulics and Hydrology Rethinking Water Climate Adaptation Politics, Uneven Distribution Risks	M272	M003 Coastal Processes and Morphology M013 River Basin Modelling M063 Water Quality Assessment & Monitoring M017 Organizing Water River Basins and Cities (incl. law).	M273	M004 Modelling Coastal Hazards M068 Drought Risk Management M012 AI for Water Systems Application to Water Hazards M020 Water Conflict and Cooperation M019 Finance and Implementation Climate Finance	M274	M005 Design of Risk Reduction Measures in Coastal Zones M009 Planning Nature-based Solutions For Urban Water Management M014 Flood Risk Management M067 Integrated Modelling of Water, Eco- and Social Systems M021 Policy Analysis Climate Adaptation, Resilience	M275	M006 Climate Change Adaptation in Coastal Areas & Ports Water Sensitive Cities (sponge cities) Climate Change Adaptation Measures in River Basins M015 Decision Support Systems in Water Domain M065 Assessing Social and Environmental Impacts	M276	M007 Climate Change Adaptation in Lowland Areas Water Sensitive Cities (sponge cities) Climate Change Adaptation Measures in River Basins M015 Decision Support Systems in Water Domain M065 Assessing Social and Environmental Impacts	M277	M008	M009	M010
	Environment																	
	Digital Innovation & Hydroinformatics																	
	Governance & Management																	
Thematic track 2: Water and Health	Engineering Sciences	Introduction to the Water and Sustainable Development Programme	M024	M025 Surface Water Treatment M030 Urban Drainage and Sewerage M035 City-Wide Inclusive Sanitation M016 Rethinking Water Water Supply, Sanitation, Drainage	M272	M026 Groundwater Resources & Treatment M031 Wastewater Treatment Processes and Technologies M036 On-site Sanitation and Treatment M063 Water Quality Assessment & Monitoring M017 Organizing Water Utility, Informal Providers	M273	M027 Water Transport and Distribution M032 Sludge Treatment and Resource Recovery Reuse and Circular Economy M037 Humanitarian WASH	M274	M028 Desalination and Water Reuse: Engineering and the Environment Wastewater Treatment Design and Selection Various Plants Design M037 Humanitarian WASH	M275	M029 Drinking Water Treatment Plant Design M054 Wastewater Reuse in Agriculture Experimental Methods for Evaluation of Wastewater, Sanitation & Environmental Technologies M038 Industrial Water and Resource Management M041 Transformation, Advocacy and Change Water, Sanitation	M276	M030	M031	M032	M033	M034
	Environment																	
	Sanitation																	
	Governance & Management																	
Thematic track 3: Water, Food and Energy	Engineering Sciences	Introduction to the Water and Sustainable Development Programme	M042	M051 Water-Energy-Food Nexus: Approaches for River Basin Management M016 Rethinking Water Irrigation & Energy M049 Digital Innovations for Water Challenges	M272	M052 Energy Harnessing in the Urban Water Cycle M046 Water and Agriculture M017 Organizing Water Irrigation & WUAs	M273	M053 Food system transformation for sustainable food production and climate change adaptation M012 AI for Water Systems Application Water, Agric and Energy	M274	M054 Hydraulic Design of Structures Irrigation Structures M067 Integrated Modelling of Water, Eco- and Social Systems Policy Analysis Agrarian Change, Biofuels, Reuse	M275	M055 Dams and Hydropower M041 Transformation, Advocacy and Change Grassroot Initiatives M052 Wetlands for Livelihoods and Conservation M054 Wastewater Reuse in Agriculture M055 Sensing and Geoprocessing for Precision Agriculture	M276	M056	M057	M058	M059	M060
	Governance & Management																	
	Environment																	
	Digital Innovation & Hydroinformatics																	
Thematic track 4: Water Resources and Ecosystem Health	Engineering Sciences	Introduction to the Water and Sustainable Development Programme	M070	M010 Hydrology and Ecosystems M040 Digital Innovations for Water Challenges M014 Rethinking Water Water Resources, Nature Conservation	M272	M057 Hydraulics for Engineering Applications M059 Hydrological Monitoring, Data Collection and Analysis and Assessment. M063 Water Quality Assessment & Monitoring M013 River Basin Modelling M017 Organizing Water River Basins (incl. law).	M273	M064 River Morphodynamics M060 Surface Water and Groundwater Flow Dynamics M020 Water Conflict and Cooperation M061 Aquatic Ecology and Bioassessment M012 AI for Water Systems Application to Water Resources M019 Finance and Implementation Resource Economics	M274	M065 Hydraulic Design of Structures River Structures M058 Geochemistry and Tracers for Hydrological Studies M062 River and Floodplain Rehabilitation M067 Integrated Modelling of Water, Eco- and Social Systems	M275	M066 Dams and Hydropower M052 Wetlands for Livelihoods and Conservation M056 Hydrological Modelling Groundwater modelling M065 Assessing Social and Environmental Impacts	M276	M067	M068	M069	M070	M071
	Environment																	
	Digital Innovation & Hydroinformatics																	
	Governance & Management																	

Number of Modules in Terms:

4

9

11

12

12

12

For information: curricula of joint programmes:

WSD - Joint programmes	CoastHazar 120 EC	Modules at partner institute										M273	M003	Coastal Processes and Morphology	M274	M004	Modelling Coastal Hazards	M275	M005	Design of Risk Reduction Measures in Coastal Zones	M276	M006	Climate Change Adaptation in Lowland Areas	M277	Seminar & Fieldtrip #1	M072	Dynamic and Statistical Regional Wave Modelling	M278	M279	M073	Flood Protection in Lowland Areas	Exams	M195	Seminar & Fieldtrip #2	M196	Short Course 1	M197	Short Course 2	M198	Summer School: Integrating CZM in a Changing World	Modules at partner institute					
	HERBD with Kuala Lumpur 97 EC	M080	Introduction to the Water and Sustainable Development Programme	M070	Introduction to Water Resources and Ecosystems Health	M272	M051	Water-Energy-Food Nexus: Approaches for River Basin Management	M057	Hydraulics for Engineering Applications	M064		River Morphodynamics	M045		Hydraulic Design of Structures	Track 4 >		River Structures	M044		Dams and Hydropower	M083		Interdisciplinary Project and Fieldwork	M083	Interdisciplinary Project and Fieldwork			M083	Interdisciplinary Project and Fieldwork		M223	Interdisciplinary project II	M178	Internship (Optional) 6 weeks July/August	Modules at partner institute									
	LWM 120 EC	Modules at partner institute											M061	Aquatic Ecology and Bioassessment		M067	Integrated Modelling of Water, Eco- and Social Systems		M062	River and Floodplain Rehabilitation		M028	Drinking Water Treatment Plant Design		M038	Industrial Water and Resource Management	M054			Wastewater Reuse in Agriculture	M015		Decision Support Systems in Water Domain	M056	Hydrological Modelling	Groundwater modelling	Surface water modelling	M083	Interdisciplinary Project and Fieldwork	M088	Groundwater in Adaptation to Climate Change Impacts	M226	Electives and/or Internship	Modules at partner institute		
	IMETE 120 EC	Modules at partner institute											M032	Sludge Treatment and Resource Recovery		M033	Wastewater Treatment Design And Selection		M029	Desalination and Water Reuse: Engineering and the Environment		M218	Flood Modelling I		M058	Geochemistry and Tracers for Hydrological Studies																				
	Flood Risk Mngt 120 EC	Modules at partner institute											M069	Unit Processes for Saline Water Treatment																																
	GroundWatch 120 EC	Modules at partner institute																																												