

Water Science and Engineering programme overview 2021-2023



INFO WSE programme	Term	Week nr	SUWM-CRC Sustainable Urban Water Management - Climate Resilient Cities C2405	SUWM Sustainable Urban Water Management C2227	HWR Hydrology and Water Resources C1501	HI Hydroinformatics modelling and Information systems for water management C1490	IEMFS Irrigation Engineering and Management for Food Security C2362	CEPD Coastal Engineering and Port Development C1427	HERBD Hydraulic Engineering River Basin Development C1477	HERBD-KL Hydraulic Engineering River Basin Development (Kuala Lumpur) C2378	GroundwatCH C1441	FRM Flood Risk Management C1440	IMHI International Master in Hydroinformatics C2249																	
	1	43	Introduction to water and development M3880										IST Lisbon	TU Dresden	ECIJG															
		44 45	Introduction to water science and engineering M3780																											
	2	46 47 48	Hydrology and hydraulics M3781																											
		49	Examination Week																											
	3	50 51	Urban system analysis planning and management: an introduction M3326	Urban system analysis planning and management: an introduction M3326 online course: M3327	Hydrogeology M3532	Information technology and software engineering M3535	Irrigation and Drainage Essentials M3504	Introduction to coastal science and engineering M3636	River basin development and environmental impact assessment M3389																					
			Free Period																											
	4	3 4 5	3 continue..	3 continue..	3 continue..	3 continue..	3 continue..	3 continue..	3 continue..																					
			Urban drainage and sewerage M3784	Surface hydrology M3740	Modeling theory and computational hydraulics M3822	Irrigation and Drainage Design Project I M3855	Port planning and infrastructure design M3583	Data collection and analysis and design M3779																						
	5	7 8 9	Examination Week																											
			Water quality M3533	Water quality M3533	Modeling and information systems development M3536	Irrigation and drainage design project II M3857	Coastal systems M3630	Hydraulics and remote sensing for river basin development M3697																						
6	10 11 12	SUWM Choose module 6										Tracer hydrology and flow systems analysis M3537	Computational intelligence and operational water management M3728	Computational intelligence and operational water management M3728																
		M3728 - Computational intelligence and operational water management	M3764 - Water resources assessment and modelling	M3529 - Resource oriented wastewater treatment and sanitation	M3763 - Environmental systems analysis	Tracer hydrology and flow systems analysis M3537	Computational intelligence and operational water management M3728	Management of irrigation and drainage systems M3833	Design of breakwaters and dikes M3584	River morphodynamics M3768	Tracer hydrology and flow systems analysis M3537																			
	7	14 15 16	SUWM: Choose module 7										River basin modelling M3755	River basin modelling M3755																
			M3744 - Water transport and distribution	M3760 - Water quality assessment and monitoring	M3755 - River basin modelling	M3735 - Water and environmental policy analysis	HWR: choose your module 7 in Educator	Hydrological data collection and processing M3687	Groundwater data collection and interpretation M3688	River basin modelling M3755	Optimization of canal system design and operation M3868	Process-based coastal modelling M3639			Hydraulic structures M3631	Groundwater data collection and interpretation M3688														
	WSE: Choose your module 8 in Educator										--	--	Choose 8	Choose 8																
	8	17 18 19	M1309 - Integrated hydrological and river modelling	M3549 - Water resources planning	M3749 - Industrial resource management and cleaner production	M3785 - Urban flood management and disaster risk mitigation	M3852 - Climate change impacts and adaptation in deltas	ONLY HWR: M3826 - Groundwater in adaptation to global change impacts					Dams and hydropower M3816	Groundwater in adaptation to global change impacts M3826	River flood analysis and modelling M3820	Urban flood management and disaster risk mitigation M3785	M3820 - River flood analysis and modelling	M3785 - Urban flood management and disaster risk mitigation	M3852 - Climate change impacts and adaptation in deltas	M3578 - Food security, health and environment	M1309 - Integrated Hydrological and River Modelling	M3816 - Dams and Hydropower								
			All: M3816 - Dams and hydropower														All: M3578 - Food security, health and environment					All: M3785 - Urban flood management and disaster risk mitigation					All: M3852 - Climate change impacts and adaptation in deltas			
	Examination Week																													
	9	21 22 23	Fieldtrip and fieldwork WSE M3860										Fieldtrip & hydropower potential M3788	Fieldtrip and fieldwork WSE M3860	Fieldtrip and fieldwork WSE M3860	Fieldtrip and fieldwork WSE M3860														
			Choose your module 10 and 11 in Educator										--	Choose 11	--	Choose 10 and 11														
	10	24 25 26	Urban water systems M3837										ONLY HWR: M3353 - Applied groundwater modeling					Environmental assessment for water-related policies and development M3863	Exam before leave	Applied groundwater modelling M3353	Flood risk management M3729	M3700 - Drought management and reservoir operations	M3581 - Innovative water solutions for agriculture	M3729 - Flood risk management	M2214 - Geotechnical engineering and dredging	M3837 - Urban water systems				
			All: M3729 - Flood risk management										All: M3700 - Drought management and reservoir operations									All: M2214 - Geotechnical engineering and dredging					All: M3581 - Innovative water solutions for agriculture			

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Students HERBD-KL go to: University of Kuala Lumpur, Malaysia	11	27	Water sensitive cities M3756		M3746 - Experimental methods in wastewater treatment M3756 - Water sensitive cities M3874 - Decentralised water supply and sanitation M3858 - Remote sensing for agricultural water management M3637 - Water resources planning under changing climate and environment M3214 - Wetlands for livelihoods and conservation M3849 - Sustainability and resilience of water organisations M3703 - Solid waste management M3875 - Advanced water transport and distribution M3422 - Strategic planning for river basins and deltas M3865 - Decision support systems in the water domain					M3746 - Experimental methods in wastewater treatment M3756 - Water sensitive cities M3874 - Decentralised water supply and sanitation M3858 - Remote sensing for agricultural water management M3637 - Water resources planning under changing climate and environment M3214 - Wetlands for livelihoods and conservation M3849 - Sustainability and resilience of water organisations M3703 - Solid waste management M3875 - Advanced water transport and distribution M3422 - Strategic planning for river basins and deltas M3865 - Decision support systems in the water domain	Decision support systems in the water domain M3865	M3756 - Water sensitive cities M3875 - Advanced water transport and distribution M3865 - Decision support systems in the water domain M3214 - Wetlands for Livelihoods and Conservation M3422 - Strategic Planning for River Basins and Deltas M3874 - Decentralised Water Supply and Sanitation							
		28																	
29																			
..	30	Examination Week											Examination Week						
Students leave: Erasmus Mundus FRM, GroundwatCH	12	31											Choose your summer course in Educator				UnikL		
	13	32	Thesis research proposal development for WSE M3889	Groupwork WSE M3757						Free/Internship	Free	Groupwork WSE M3757							
		33											Exam Week	Exam Week					
	34	Free	Free																
	..	35	Examination Week				Examination Week												
	14	37	Thesis research proposal development for WSE M3889	Thesis research proposal development for WSE M3889						TU Dresden	UPC UL	Thesis research and proposal development for WSE M3889							
		38											Exam Week	Exam Week					
		39																	
40	Examination Week				Examination Week														
41	42	Examination Week				Examination Week													
IHE DELFT © 2021	7	13	MSc research, thesis and defence M3867	MSc research, thesis and defence M3867	MSc research, thesis and defence M3866					Elective: IHE MSc research, thesis and defence M3867	Elective: IHE MSc research, thesis and defence M3867	MSc research, thesis and defence M3866							
		14																	
		15																	
		16																	
		8											Submission MSc thesis: 4 april 2023 Final examination weeks (defence) Diploma awarding 25/4/2023				Submission MSc thesis: 4 april 2023 Final exam weeks (defence) Diploma awarding 25/4/2023		