

Joint Doctoral Degree Programme in Integrated Management of Water, Soil and Waste



Semester plan

Semester	Course*	Type	Credits
1	UNU-FLORES: DPIM01 Water-soil-waste Nexus under Global Change	Mandatory	5
	UNU-FLORES: DPIM02 Environmental Governance	Mandatory	5
	TUD: 2 courses from list of electives, summing to 10 credits	Elective	2 x 5
	UNU-FLORES + TUD: DPIM03A Dissertation Proposal	Mandatory	10
			Semester 1 total: 30
2	UNU-FLORES: DPIM04 Systems and Processes	Mandatory	5
	TUD: 2 courses from list of electives, summing to 10 credits	Elective	2 x 5
	UNU-FLORES + TUD: DPIM03B Final Dissertation Proposal and Defence	Mandatory	15
			Semester 2 total: 30
3*	Dissertation	Advanced	30
4**	Dissertation	Advanced	30
5**	Dissertation	Advanced	30
6**	Dissertation	Advanced	30
7**	Dissertation	Advanced	30
			Grand Total 210

- *Choice of electives will be done in cooperation with the Dissertation Supervisor.
- **Students may participate in workshops/courses offered by the Graduate Academy of TU Dresden.

Potential Electives regularly given at TU Dresden

Semester	Course	Credits	Prerequisites
Winter	MHSE01 Statistics	5	Basic knowledge in mathematics
	MHSE02 Climatology & Hydrology	5	Basic knowledge in physics and mathematics
	MHSE03 Geodesy	5	Basic knowledge of mathematics, statistics, and physics
	MHSE04 Soils	5	Basic knowledge in geology, physics and chemistry
	MHSE18 Soil Water	5	Advanced knowledge in soils
	MHSE21 Watershed Management - II	5	Advanced knowledge in hydrology, hydraulic engineering, and statistics
	MHSE22 Urban Water - II	5	MHSE13 Urban Water - I
	MHSE24 Water Quality and Treatment	5	Basic knowledge in chemistry and hydrochemistry
	MHSE25 Drinking Water Supply	5	Basic knowledge in chemistry and physics, MHSE24
	FOMT1.1 Tropical Climate and Ecology	5	Basic knowledge in mathematics, chemistry, physics, and biology
	FOMT2.3A Modelling	5	Knowledge in mathematical and statistical fundamentals
	FOMT2.3B Communication and Conflict Management	5	Knowledge in natural forest and plantation management and conservation
	FOMT2.4A Natural Forest Management and Restoration in the Tropics	5	Knowledge in forestry
	FOMT2.4B Forest Plantation Management and Landscape Rehabilitation in the tropics	5	Basic knowledge in forestry
Summer	MHSE10 International Water Issues	5	Basic Knowledge in hydro sciences, regional water management and hydrology
	MHSE11 Circular Economy	5	Basic knowledge in physics, chemistry and mathematics
	MHSE17 Climate Change		Basic knowledge in meteorology, hydrology, physics, chemistry, and mathematics
	MHSE12 Watershed Management - I	5	Advanced knowledge in hydrology, hydraulic engineering, and statistics
	MHSE13 Urban Water - I	5	Basic knowledge in mathematics
	MWW16 Integrated Water Resources Management (IWRM)	5	Basic knowledge in hydrology, meteorology, groundwater management, urban drainage, and systems analysis
	FOMT1.5 Economics and Management of Forest Resources	5	Not listed

	FOMT1.7 Management of Vegetation and Soil in Watersheds	5	Basic knowledge in forestry, soil sciences, biogeochemistry, hydrology, and climatology
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