

# Course of Study Environmental Engineering (Study Cohort w23)

Sample course plan B Master Environmental Engineering (IMPEE) Dual study program

Core Qualification Compulsory    Specialisation Compulsory    Focus Compulsory    Thesis Compulsory  
 Core Qualification Elective Compulsory    Specialisation Elective Compulsory    Focus Elective Compulsory    Interdisciplinary complement

Specialisation Environment and Climate			
1	<b>Waste Treatment Technologies</b>		<b>Practical module 2 (dual study program, Master's degree)</b>
2	Biological Waste Treatment	PBL 3	Practical term 2 0
3	Waste and Environmental Chemistry	PR 2	
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7	<b>Sustainable Water Management and Microbiology of Water Systems</b>		<b>Practical module 3 (dual study program, Master's degree)</b>
8	Sustainable Water Management	PBL 2	Practical term 3 0
9	Microbiology of water systems	VL 2	
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13	<b>Environmental Analysis and Water Technology Practice</b>		<b>Management of Surface Water</b>
14	Environmental Analysis	VL 2	Modelling of Flow in Rivers and Estuaries VL 3
15	Practical Course in Water and Wastewater Technology I	PR 3	Nature-Oriented Hydraulic Engineering / Integrated Flood Protection PBL 2
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18			<b>Selected Topics in Environmental Engineering (part 1)</b>
19	<b>Fluid Mechanics, Hydraulics and Geo-Information-Systems in Water Management</b>		Selection from a catalog
20	Geo-Information-Systems in Water Management and Hydraulic Engineering	PBL 2	
21	Fluid Mechanics and Hydraulics	VL 2	<b>Advanced Vadose Zone Hydrology</b>
22	Fluid Mechanics and Hydraulics	GÜ 1	Vadose Zone Hydrology VL 2
23			Vadose Zone Hydrology HÜ 2
24			Modeling Processes in Vadose Zone GÜ 2
25			
26	<b>Subsurface Processes</b>		<b>Selected Topics in Environmental Engineering (part 2)</b>
27	Subsurface Solute Transport	VL 2	Selection from a catalog
28	Subsurface Solute Transport	HÜ 1	
29	Modeling of Subsurface Processes	GÜ 3	<b>Water and Environment: Theory and Application</b>
30			Water and Environment VL 1
31	<b>Practical module 1 (dual study program, Master's degree)</b>		<b>Emerging Trends in Environmental Engineering</b>
32	Practical term 1 0		Microplastics in Environment VL 2
33			Scientific Communication and Methods VL 1
34			Environmental Research Trends SE 2
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40			<b>Sustainable Nature-based Coastal Protection in a Changing Climate (SeaPiaC)</b>
			Sustainable Nature-based Coastal Protection in a Changing Climate PBL 4
Business & Management (from catalogue) - 6LP			
Linking theory and practice (dual study program, Master's degree) (from catalogue) - 6LP			

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

