

Bachelor's degree program “Environmental Engineering”
Curriculum

Status: 21.07.26

Module code	Module title	CP of the Modules	Preper- formance	1. Semester				2. Semester				3. Semester				4. Semester				5. Semester				6. Semester			
				WiSe				SuSe				WiSe				SuSe				WiSe				SuSe			
				V	Ü	P	CP	V	Ü	P	CP	V	Ü	P	CP	V	Ü	P	CP	V	Ü	P	CP	V	Ü	P	CP
Compulsory modules																											
UI-01	Advanced Mathematics A	8		4	2	K	8																				
UI-02	Mechanics A	9		3	4	K	9																				
UI-03	Environmental Engineering I	3		2		S	3																				
UI-04	Chemistry and Chemistry laboratory	7	X	2	2	K	4		3		3																
UI-05	Introduction to Sustainability Science	5		1	1	S	2	1	1	S	3																
UI-06	Advanced Mathematics B	8						4	2	K	8																
UI-07	Urban Water Management I	5						2	2	K	5																
UI-08	Engineering Informatics	5						2	2	K	5																
UI-09	Environmental Chemistry, Environmental and Contract Law	6						4		K	6																
UI-10	Fluid Mechanics	5										2	2	K	5												
UI-11	Advanced Mathematics C	5										2	2	K	5												
UI-12	Technical Microbiology	5														1	3	K	5								
UI-13	Energy Consumption and Life Cycle Assessment	5																						3	1	K	5
Focus of study Sustainable Process and Environmental Engineering (MB)																											
UI-M01	Numerical Mathematics	5										2	2	K	5												
UI-M02	Fundamentals of Thermodynamics	5										2	2	K	5												
UI-M03	Material Conversion in Energy Technology	5										3	1	K	5												
UI-M04	Materials: Fundamentals and Application	7										3			3	3	1	K	4								
UI-M05	Fundamentals of Metrology with Practical Experiment	5														1	3	S	5								
UI-M06	Energy Economics	5														3	1	K	5								
UI-M07	Circular Economy in Environmental Engineering	5														3	1	K	5								
UI-M08	Fundamentals of Chemical Engineering	5															2	2	S	5							
UI-M09	Heat and Mass Transfer	5															2	2	K	5							
UI-M10	Fundamentals of Fluid Energy Machines	5															2	2	K	5							
UI-M11	Apparatus Engineering	5															3	1	K	5							
UI-M12	Sustainable Energy Conversion Systems	5															3	1	K	5							
UI-M13	Materials Recycling	5															3	1	K	5							
UI-M14	Material Conversion in the Chemical Industry	5																					3	1	K	5	
UI-M15	Environmental Engineering Laboratory Course (MB)	8																						5	P	8	
Focus of study Environmental Technology and Planning (BI)																											
UI-B01	Construction Materials Environmental Engineering	5										2	2	K	5												
UI-B02	Building Physics	5										2	2	K	5												
UI-B03	Structural Analysis A	5	X									2	2	K	5												
UI-B04	Hydrology and Water Resources Management	7										1	1		3	2	1	K	4								
UI-B05	Mechanics B forEnvironmental Engineering	5														2	2	K	5								
UI-B06	Reinforced Concrete Structures	5	X													3	2	K	5								
UI-B07	Steel Structures	5	X													2	2	K	5								
UI-B08	Urban Water Management II	5															2	2	K	5							
UI-B09	Fundamentals in Transportation and Traffic Engineering	5															2	2	K	5							
UI-B10	Environmental Engineering in Pavement Construction	5															3	1	K	5							
UI-B11	Foundation Engineering, Soil Mechanics and Environmental Geotechnics	10															4	3	K	10							
UI-B12	Construction operations and construction process engineering	8															3	1		5	1	1	K	3			
UI-B13	Observation of Environmental systems	5																					2	2	K	5	
UI-B14	Environmental Engineering Laboratory Course (BI)	5																						4	P	5	
Bachelor's Thesis																											
UI-BA	Bachelor's Thesis	12																									12
Optional modules																											
	Modules according to the module handbook	12					4								2				6								
	Modules from other Bachelor's degree programs																										
Total credit points		180																									
Total credit points Studienschwerpunkt MB		180		30				30				30				30				30				30			
Total credit points Studienschwerpunkt BI		180		30				30				30				30				30				30			

- V / Ü Weekly semester hours of the lecture / exercise
- P Examination form of the final module examination:
- K Written exam
- S Study related tasks
- P Project