

Study plan

Faculty of Civil Engineering and Environmental Sciences
Study programme Environmental Engineering
full-time first cycle studies

The plan is valid from the academic year 2025/2026

Semester	No.	Course title	Course Code	Course type	Exam	number of hours/week							number of hours/semester	ECTS
						L	C	LC	P	SW	FW	S		
1	1	HES I (Study methodology)	H1w1s.002	compulsory	0	1							15	1
	2	Mathematics E	B1is1s.001	compulsory	1	2	2						60	4
	3	Physics E	B1is1s.002	compulsory	1	2		2					60	5
	4	Hydrology	B1is1s.003	compulsory	0	2			1				45	4
	5	Computer-aided Design	B1is1s.004	compulsory	0	1				2			45	4
	6	Engineering graphics and CAD	B1is1s.005	compulsory	0	2				2			60	4
	7	OHS and universal design	B1is1s.006	compulsory	0	1							15	1
	8	Biology in Environmental Engineering	B1is1s.007	compulsory	0	1		2					45	4
	9	Group of courses on Sustainable Development (Sustainable development in Environmental Engineering/Environmental policy of the state)	B1is1s.101 / B1is1s.102	elective	0	2							30	3
total:						14	2	4	1	4	0	0	375	30
2	1	Foreign language I *	L1ab2s.10	elective	0		2						30	2
	2	HES II	H1w2s.1..	elective	0	1							15	1
	3	Applied Mathematics and Statistics E	B1is2s.001	compulsory	1	2	2						60	4
	4	General Chemistry	B1is2s.002	compulsory	0	2		1					45	4
	5	Engineering Mechanics*	B1is2s.003	compulsory	0	1	1						30	2
	6	Soil Mechanics and Geotechnics**	B1is2s.004	compulsory	0	1		1					30	2
	7	Surveying and GIS	B1is2s.005	compulsory	0	2				1			45	3
	8	Engineering Thermodynamics E	B1is2s.006	compulsory	1	2	1	1					60	4
	9	Water Footprint of Engineering Structures / Life Cycle Assessment (LCA)	B1is2s.101 / B1is2s.102	elective	0	1			2				45	4
	10	Selected issues in building physics/Noise protection	B1is2s.201 / B1is2s.202	elective	0	1				2			45	4
	11	Physical Education I	S1ab2s.001	compulsory	0		2						30	0
*1st half of semester, **2nd half of semester						13	8	3	2	3	0	0	435	30
3	1	Foreign Language II *	L1ab3s.10	elective	0		2						30	2
	2	Fluid Mechanics E	B1is3s.001	compulsory	1	2	1	2					75	5
	3	Materials Science for Installations	B1is3s.002	compulsory	0	1				2			45	3
	4	Heat transfer E	B1is3s.003	compulsory	1	2	1	2					75	5
	5	Pumps, fans, compressors	B1is3s.004	compulsory	0	1		1	1				45	4
	6	Sanitary Chemistry	B1is3s.005	compulsory	0	1		2					45	4
	7	Indoor microclimate and air quality / Combustion technologies	B1is3s.101 / B1is3s.102	elective	0	2				1			45	4
	8	Environmental reclamation techniques/Remediation of contaminated sites	B1is3s.201 / B1is3s.202	elective	0	1				1			30	3
	9	Physical Education II	S1ab3s.001	compulsory	0		2						30	0
total:						10	6	7	1	4	0	0	420	30
4	1	Foreign Language III *	L1ab4s.10	elective	0		2						30	2
	2	HES III (Intellectual Property Protection)	H1w4s.002	compulsory	0	1							15	1
	3	Heating Engineering E	B1is4s.001	compulsory	1	2		1	2				75	5
	4	Water Technology E	B1is4s.002	compulsory	1	1		2		1			60	4
	5	Municipal, Hydraulic and Transportation Structures	B1is4s.003	compulsory	0	1			2				45	3
	6	Water management and protection	B1is4s.004	compulsory	0	1		1	1				45	4
	7	Air and Climate Protection	B1is4s.005	compulsory	0	1				2			45	4
	8	Water Supply Systems E	B1is4s.006	compulsory	1	1			2	1			60	4
	9	Wind Energy / Solar Radiation Conversion Systems	B1is4s.101 / B1is4s.102	elective	0					2			30	3
total:						8	2	4	7	6	0	0	405	30
5	1	Foreign Language IV *	L1ab5s.10	elective	0		2						30	2
	2	Sewerage systems E	B1is5s.001	compulsory	1	1			2	1			60	5
	3	Local Heat Sources and District Heating Networks	B1is5s.002	compulsory	0	2			2				60	5
	4	Stormwater Drainage and Management	B1is5s.003	compulsory	0	2			1				45	4
	5	Wastewater Technology E	B1is5s.004	compulsory	1	2		2		1			75	5
	6	Ventilation and air conditioning E	B1is5s.005	compulsory	1	2		1	2				75	5
	7	Building Energy Certification / Rationalisation of Energy Use in Construction	B1is5s.101 / B1is5s.102	elective	0	1				2			45	4
total:						10	2	3	7	4	0	0	390	30

6	1	HES IV	H1w6s.1..	elective	0		2						30	2
	2	Water Supply and Sewerage Installations	B1is6s.001	compulsory		1			2				45	4
	3	Gas networks and installations E	B1is6s.002	compulsory	1	1			2				45	4
	4	Water and Wastewater Treatment Facilities	B1is6s.003	compulsory	0	1			2				45	4
	5	Waste Management and Resource Recovery	B1is6s.004	compulsory	0	1			2				45	3
	6	Refrigeration, heat pumps and automation E	B1is6s.005	compulsory	1	2		1	2				75	5
	7	Interim Project	B1is6s.006	compulsory	0					4			60	4
	8	Biogas plants /Fire protection networks and installations	B1is6s.101 / B1is6s.102	elective	0	1			2				45	4
total:					7	2	1	12	4	0	0	390	30	

7	1	Environmental Impact Assessment / Integrated Permit (Water Law Reports)	B1is7s.101 / B1is7s.102	elective	0	1				2			45	4
	2	Computer Modelling and Simulations in Water Supply and Sewerage Systems / Deodorisation and Treatment of Waste Gases	B1is7s.201 / B1is7s.202	elective	0					2			30	3
	3	Law and Entrepreneurship in Environmental Engineering	B1is7s.001	compulsory	0	1							15	1
	4	Diploma seminar	B1is7s.002	compulsory	0							2	30	3
	5	Diploma thesis	B1is7s.301	elective	0								0	15
	6	Work placement	B1is7s.401 / B1is7s.402 / B1is7s.403	elective									0	4
total:					2	0	0	0	4	0	2	120	30	

Σ						64	22	22	30	29	0	2	2535	210
---	--	--	--	--	--	----	----	----	----	----	---	---	------	-----

Students of the Environmental Engineering study programme are required to complete a 4-week field placement after the 6th semester, accounted for during the 7th semester.

L - lecture * L ... 100a - English, L ... 100n - German, L ... 100r - Russian

C - classes/tutorials

LC – laboratory classes

P — project

SW - specialization workshop

FW - field work

S - seminar

(E) - exam (0/1)

HES II, HES IV – list of courses available at:

<https://pb.edu.pl/hub-dydaktyki/przedmioty-ogolnouczeniaine/przedmioty-z-dziedziny-nauk-humanistycznych-i-spoecznych-hes/wb/>