1.	**Field of study**	**Environmental Protection**
2.	Faculty	Faculty of Natural Sciences
3.	Academic year of entry	2023/2024 (winter term), 2024/2025 (winter term)
4.	Level of qualifications/degree	first-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	Academic year for which the revised course structure applies	2023/2024

Field modules

No.	Module	Lang.	E/C	form of teaching			Total ECTS	year 1						year 2						year 3					
								semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
				Total	L	O		L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E
1	Plan your education path	–	C	6	6		0	2						2									2		
2	Basics of statistics	–	C	15		15	1		15	1															
3	Cartography, topography and remote sensing	–	E	30	10	20	3	10	20	3															
4	Chemistry for environmental protection	–	E	90	20	70	6	20	70	6															
5	Economics in environmental protection	–	C	20	10	10	2	10	10	2															
6	Ecopedology	–	C	30	10	20	2	10	20	2															
7	Fundamentals of botany	–	E	55		55	4		55	4															
8	Fundamentals of zoology	–	E	55		55	4		55	4															
9	Global physical and chemical environmental pollution	–	C	30	10	20	3	10	20	3															
10	Group of optional modules in the semester I *[see description below]	*	*	30		30	2		30	2															
11	Mathematics in the natural sciences	–	C	45	15	30	3	15	30	3															
12	Ecology	–	E	80		80	6					80	6												
13	Elements and resources of the environment - field exercise I	–	C	84		84	3					84	3												
14	Environmental biochemistry	–	C	30	10	20	2				10	20	2												
15	Environmental geology	–	E	45	15	30	4				15	30	4												
16	Group of optional modules in the semester II *[see description below]	*	*	30		30	2					30	2												
17	Information technology in natural science	–	C	30		30	3					30	3												
18	Physics in environmental protection	–	E	45	15	30	4				15	30	4												
19	Analytical techniques and methods used in environmental protection	–	C	60	20	40	6							20	40	6									
20	Environmental management	–	E	60	15	45	4							15	45	4									
21	Environmental microbiology	–	C	30	10	20	2							10	20	2									
22	Geographical Information Systems (GIS)	–	C	45	10	35	3							10	35	3									
23	Group of optional modules in the semester III *[see description below]	*	*	30		30	3								30	3									
24	Hydrology and water management	–	E	60	30	30	4							30	30	4									
25	Meteorology and climatology	–	C	30	10	20	2							10	20	2									
26	Applied environmental technologies	–	E	60	15	45	4										15	45	4						
27	Civilisation risks and sustainability	–	C	55	10	45	3										10	45	3						
28	Environmental monitoring	–	E	60	15	45	4										15	45	4						
29	Environmental risks and protection - field exercises II	–	C	84		84	3											84	3						
30	Group of optional modules in the semester IV *[see description below]	*	*	30		30	3											30	3						
31	Renewable energy sources	–	E	60	15	45	4										15	45	4						
32	Bachelor seminar I	–	C	15		15	1														15	1			

Field modules

No.	Module	Lang.	E/C	form of teaching: Total	L	O	Total ECTS	year 1 / semester 1: L	O	E	year 1 / semester 2: L	O	E	year 2 / semester 3: L	O	E	year 2 / semester 4: L	O	E	year 3 / semester 5: L	O	E	year 3 / semester 6: L	O	E
33	Bachelor workshop I	–	C	30		30	2																30	2			
34	Ecosystems under anthropopressure	–	C	36		36	3																36	3			
35	Environmental reporting	–	C	15		15	1																15	1			
36	Fundamentals of genetics	–	C	30		30	2																30	2			
37	Group of optional modules in the semester V *[see description below]	*	*	105		105	10																105	10			
38	Threats and nature conservation	–	E	30	10	20	2															10	20	2			
39	Aeromonitoring of air as a tool in climate change research	–	C	30	10	20	3																		10	20	3
40	Bachelor seminar II	–	C	15		15	1																			15	1
41	Bachelor workshop II	–	C	30		30	2																			30	2
42	Environmental geochemistry	–	E	50	20	30	5																		20	30	5
43	Green chemistry	–	C	30	10	20	3																		10	20	3
44	Group of optional modules in the semester VI *[see description below]	*	*	60		60	6																			60	6
	TOTAL Field modules:			**1890**	**321**	**1569**	**140**	**77**	**325**	**30**	**40**	**304**	**24**	**97**	**220**	**24**	**55**	**294**	**21**	**10**	**251**	**21**	**42**	**175**	**20**

Programme co-related modules

No.	Module	Lang.	E/C	form of teaching: Total	L	O	Total ECTS	year 1 / semester 1: L	O	E	year 1 / semester 2: L	O	E	year 2 / semester 3: L	O	E	year 2 / semester 4: L	O	E	year 3 / semester 5: L	O	E	year 3 / semester 6: L	O	E
1	The area of “Civil Society and Entrepreneurship: Entrepreneurship”	–	C	30		30	3					30	3													
2	Group of programme co-related modules *[see description below]	*	*	30		30	3								30	3										
3	Group of programme co-related modules *[see description below]	*	*	30		30	3											30	3							
4	The area of “Civil Society and Entrepreneurship: Vade mecum on Law”	–	C	30		30	3														30	3				
	TOTAL Programme co-related modules:			**120**	**0**	**120**	**12**	**0**	**0**	**0**	**0**	**30**	**3**	**0**	**30**	**3**	**0**	**30**	**3**	**0**	**30**	**3**	**0**	**0**	**0**

Open access modules

No.	Module	Lang.	E/C	form of teaching: Total	L	O	Total ECTS	year 1 / semester 1: L	O	E	year 1 / semester 2: L	O	E	year 2 / semester 3: L	O	E	year 2 / semester 4: L	O	E	year 3 / semester 5: L	O	E	year 3 / semester 6: L	O	E
1	Physical education	–	C	60		60	0					30			30											
2	English language course 1	EN	C	30		30	3					30	3													
3	English language course 2	EN	C	30		30	3								30	3										
4	English language course 3	EN	C	30		30	3											30	3							
5	Open University Module	–	C	120		120	12											30	3		30	3		60	6	
6	English language course 4	EN	C	30		30	3														30	3				
	TOTAL Open access modules:			**300**	**0**	**300**	**24**	**0**	**0**	**0**	**0**	**60**	**3**	**0**	**60**	**3**	**0**	**60**	**6**	**0**	**60**	**6**	**0**	**60**	**6**

Internship				form of teaching				year 1						year 2						year 3					
								semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E
1	Internships	–	C	120		120	4																	120	4
	TOTAL Internship:			120	0	120	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	4
	TOTAL:			2430	321	2109	180	402		30	434		30	407		30	439		30	351		30	397		30
TOTAL EXCLUDING INTERNSHIPS								2310																	
TOTAL								2430																	

The study ends with the awarding of a Bachelor's Degree in the field of Environmental Protection.

* Groups of modules

Group of programme co-related modules

Description:					
A student selects one of the modules offered within indicated areas					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Digital World" area	–	C		30	3
Module in the "Health and Personal Development" area	–	C		30	3
Module in the "Natural Environment and Technologies" area	–	C		30	3

Group of programme co-related modules

Description:					
A student selects one of the modules offered within indicated areas					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3

Group of optional modules in the semester III

Description:					
A student selects one of the modules offered within a group of modules					
Modules:	Lang.	E/C	L	O	ECTS
Environmental physics; atmosphere and oceans with elements of geophysics	–	E	20	25	3
Forest ecosytem	–	C	15	15	3
Natural basis of brownfield development	–	C	15	30	3

Group of optional modules in the semester IV

Description:					
A student selects one of the modules offered within a group of modules					
Modules:	Lang.	E/C	L	O	ECTS
Biological invasions	–	C	10	35	3
Forest ecosytem	–	C	15	15	3
The nature of Upper Silesia and its conservation	–	C	10	35	3

Group of optional modules in the semester I

Description:					
A student selects one of the modules offered within a group of modules					
Modules:	Lang.	**E/C**	**L**	**O**	**ECTS**
Chemical fundamentals of biological processes	–	C	10	20	2
Fundamentals of Earth Sciences	–	C	10	15	2
Theories of modern biology	–	C	6	24	2

Group of optional modules in the semester II

Description:					
A student selects one of the modules offered within a group of modules					
Modules:	Lang.	**E/C**	**L**	**O**	**ECTS**
Field research methods	–	C	6	24	2
Fundamentals of chemical and physical sciences for environmental protection	–	C		30	2
Introduction to environmental science	–	C	15	15	2

Group of optional modules in the semester V

Description:					
A student chooses three course modules from among those proposed in the module group. One of the selected modules supports area-based learning.					
Modules:	Lang.	**E/C**	**L**	**O**	**ECTS**
Acquisition of spatial data for environmental studies	–	C	10	20	3
Anthropogenic climate risks	–	E	15	25	3
Ecosystem services	–	C		30	3
Environmental physics; atmosphere and oceans with elements of geophysics	–	E	20	25	3
Environmental pollution analytics	–	C	10	20	3
Environmental protection in mining areas	–	C	10	15	2
Extreme hydrological phenomena	–	C	15	15	2
Introduction to the use of X-ray methods in environmental protection	–	C		30	3
Lichenology (e-learning subject of choice)	–	C		30	2
Natural basis of brownfield development	–	C	15	30	3
Nuclear physics in environmental research	–	C	30		2
Plastics recycling	–	C	10	20	2
Polymers and the environment	–	C	6	24	2
Water management in the context of climate change	–	C	15	25	3

Group of optional modules in the semester VI

Description:					
A student chooses two course modules from among those proposed in the module group.					
Modules:	Lang.	**E/C**	**L**	**O**	**ECTS**
Acquisition of spatial data for environmental studies	–	C	10	20	3
Anthropogenic climate risks	–	E	15	25	3
Biological invasions	–	C	10	35	3
Ecosystem services	–	C		30	3
Environmental physics; atmosphere and oceans with elements of geophysics	–	E	20	25	3
Environmental pollution analytics	–	C	10	20	3

Forest ecosytem	–	C	15	15	3
Introduction to the use of X-ray methods in environmental protection	–	C		30	3
Natural basis of brownfield development	–	C	15	30	3
The nature of Upper Silesia and its conservation	–	C	10	35	3
Water management in the context of climate change	–	C	15	25	3

Legend

Each semester consists of 15 weeks
E/C - exam/course work
E - ECTS
L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)