Learning outcomes for the field and their relationship to the learning outcomes for the areas of study

Faculty offering the field of study:		Faculty of Biology and Environmental Protection	
	udy: If field of study must correspond to the content of alum, in particular to the expected learning	environmental protection	on
Level of st	tudy:	second cycle programm	e
(first cycle, second cycle, long cycle)			
Degree pr		general academic	
	(general academic, practical) The field of study within the area (areas) of study: Natural Sciences (P)		
	(including justification)*		
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(1)	(2) Learning outcomes for t	he field	(3) Reference
Symbol	Upon completion of the general academic profile second cycle programme in environmental protection the graduate achieves the learning outcomes specified below.		to the learning outcomes in the area of study (symbols) life sciences P2A
KNOWLEDGE			
K_W01	The graduate identifies and explains relations among elements of the environment.		P2A_W01
K_W02	The graduate explains the functioning of ecological systems and indicates the consequences of human interference.		P2A_W01
K_W03	The graduate explains selected ecological processes on the molecular level.		P2A_W01 P2A_W03
K_W04	The graduate predicts the consequences of human interference for the natural environment and discusses ways of counteracting environment degradation.		P2A_W02 P2A_W04
K_W05	The graduate explains the meaning of knowledge of toxicology in the environment protection		P2A_W04
K_W06	The graduate describes examples of biotechnology application for the environment protection.		P2A_W01 P2A_W04
K_W07	The graduate describes the rules of spatial planning and use.		P2A_W04
K_W08	The graduate explains the rules of research planning and describes research		P2A_W02
K_W09	methods within the area of study that is the focused of the Master's thesis. The graduate enumerates possibilities of obtaining research and application funds and explains the settlement of accounts rules.		P2A_W07 P2A_W08
K_W10	The graduate defines premises of the environment protection policy in Poland and the EU.		P2A_W04
K_W11	The graduate describes statistical methods and modelling principles applied in environmental studies.		P2A_W03 P2A_W06
K_W12	The graduate enumerates and characterises selected specialist computer programmes applied in the environment protection.		P2A_W06
K_W13	The graduate knows basic terms in a foreign lang of environment protection.		P2A_W05
K_W14	The graduate describes the rules of preparing and writing research papers.		P2A_W08

K_W15	The graduate enumerates and discusses most important specialist literature in the field that is the focus of the Master's thesis.	P2A_W05
K_W16	The graduate enumerates and explains health and safety rules for laboratory or field work.	P2A_W09
K_W17	The graduate describes general rules of establishing and developing business activity in which knowledge of the environment protection is applied.	P2A_W11
	SKILLS	
K_U01	The graduate selects adequate methodology to solve research or practical problems.	P2A_U01
K_U02	U02 The graduate takes advantage of fundamental knowledge to draw	
_	conclusions relying on the results of research carried out.	P2A_U07
K_U03	The graduate analyses evolutionary and physiological contexts of natural phenomena.	P2A_U06
K_U04	The graduate assesses the effects of human interference on the environment	P2A_U06
	and suggests relevant solutions preventing negative effects or eliminating them.	P2A_U07
K_U05	The graduate identifies toxicological hazards in natural and anthropogenic environment.	P2A_U04
K_U06	The graduate assesses the environmental effects in spatial management planning.	P2A_U07
K_U07	The graduate applies biotechnological methods to improve the quality of the environment.	P2A_U01
K_U08	The graduate prepares simple reports and formulates guidelines for expet opinions on the basis of the collected data.	P2A_U04
K_U09	The graduate selects an appropriate way to obtain funds to implement research and application projects as well as prepares application forms, periodical and final reports.	P2A_U04
K_U10	The graduate prepares simple research papers in Polish and short scientific reports in a foreign language following general standards of writing research papers.	P2A_U09
K_U11	The graduate presents in public the results of individual and team work.	P2A_U08 P2A_U10
K_U12	The graduate is able to use specialist terminology in the field of environment protection in Polish and English.	P2A_U12
K_U13	The graduate performs and describes simple research tasks individually as well as in a team.	P2A_U04
K_U14	The graduate combines information from various sources in order to verify	P2A_U02
	the existing opinions and hypotheses.	P2A_U03
		P2A_U07
K_U15	The graduate applies environmental models to interpret changes occurring in animate and inanimate nature.	P2A_U05
K_U16	The graduate applies modern information technologies (e.g. GIS)	P2A_U05
K_U17	The graduate plans his/her professional career and applies methods aimed at reaching assumed objectives.	P2A_U11
K_U18	The graduate arranges his/her workstation in compliance with health and safety rules, and principles of ergonomics.	P2A_U04
K_U19	The graduate prepares documentation necessary for establishing a business providing expert, monitoring, consulting, opinion-making, or planning services.	P2A_U11
K_U20	The graduate provides research-based justification for the selection of his/her Master's thesis topic with a view to professional and research career.	P2A_U07 P2A_U11

SOCIAL COMPETENCES			
K_K01	The graduate understands the need for lifelong learning and improving	P2A_K01	
	professional competences and skills.	P2A_K07	
K_K02	The graduate is willing to cooperate and work in a team and assume	P2A_K02	
	various roles.		
K_K03	The graduate is able to adequately specify his/her priorities in order to	P2A_K03	
	accomplish a task set by himself/herself or by other persons.		
K_K04	The graduate puts attention to details while identifying and solving	P2A_K04	
	professional problems.		
K_K05	The graduate is aware of the need to get systematically acquainted with	P2A_K05	
	scientific journals on environment protection.		
K_K06	The graduate shows responsibility when determining hazards resulting	P2A_K06	
	from the application of various research techniques and creation of safe		
	working conditions.		
K_K07	The graduate is willing to update his/her knowledge of nature and	P2A_K07	
	recognises its practical applications.		
K_K08	The graduate is aware of problems connected with working in his/her	P2A_K08	
	profession and displays the ability to act in an entrepreneurial manner		
K_K09	The graduate is willing to use mathematical and IT tools in order to solve	P2A_K04	
	professional and research problems.		
K_K10	The graduate expresses his/her critical attitude towards plagiarism.	P2A_K01	
		P2A_K05	
K_K11	The graduate understands the need to search for new solutions in modern	P2A_K04	
	technologies.		

This learning outcomes was adopted by the Board of Faculty of Biology and Environmental Protection on 5.12.2014 r.

(Dean's signature)