

Subject card

Subject name and code	Nature and environmental protection, PG_00132173						
Field of study	Biology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	undergraduate studies	Subject group			Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			2.0		
Learning profile	academic	Assessment form					
Conducting unit	Pracownia Geobotaniki i Ochrony Przyrody -> Katedra Taksonomii Roślin i Ochrony Przyrody -> Faculty of Biology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Piotr Rutkowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		4.0		16.0	50
Subject objectives	- Understand the causes and directions of environmental degradation and know how to protect components of inanimate nature.- To learn the basics of nature and environmental protection law.- To know the forms and methods of nature protection.- Understanding the problems of nature and environmental protection						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[BIOLL3_W16] The graduate knows and understands the relationship between the achievements of the chosen field of science and discipline of natural sciences and the possibilities of their use in socio-economic life, taking into account the sustainable use of biodiversity		The graduate explains the relationship between the achievements of the selected field of science and discipline of natural sciences and the possibilities of their use in socio-economic life, taking into account the sustainable use of biodiversity			[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work [SW5] implementation of a problem task	
	[BIOLL3_K01] The graduate is prepared to evaluate their own knowledge, understand the need for continuous learning and development, and is open to new ideas		Graduates critically self-assess their own competence and update their knowledge and improve their skills			[SK1] oral statement/conversation/ discussion [SK3] text preparation/written work [SK4] test/exam - oral or written [SK5] implementation of a problem task	
	[BIOLL3_W15] The graduate knows and understands the rules, methods and techniques of field research in the natural environment and the possibilities of their use in nature conservation		The graduate introduces the basic rules, methods and techniques of field research in the natural environment and the possibilities of their use in nature conservation			[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work [SW5] implementation of a problem task	

Subject contents	History of human impact on the environment. Exhaustible and inexhaustible resources of nature. Water - resources, pollutants, sources of pollution, methods of protection. Air - composition of the atmosphere, air pollutants and related phenomena (acid rain, smogs, ozone hole, anthropogenic greenhouse effect), methods of protecting the air from pollution. Soil degradation and protection of soil resources. Waste management. Use of inexhaustible sources of energy. Monitoring of the environment in Poland. Strategy of sustainable development. Basic legal acts and international conventions on nature and environment protection. Organization of nature protection in Poland and the European Union. Forms of exploitation of living nature. Causes of extinction of plant and animal species. Species protection, red lists and books. The problem with expansive and invasive species. Area-based protection. Natura 2000 network as a form of nature conservation. Conservation of genetic, species and biocenotic diversity. Methodology of protection of species, biocenoses and biotopes based on examples from the Gdansk Pomerania region.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	final exam	51.0%	100.0%
Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Dobrzańska B., Dobrzański G., Kielczewski D. 2008. Ochrona środowiska przyrodniczego. Wyd. Nauk. PWN. 2. Symonides E. 2007. Ochrona Przyrody. Wyd. UW. 3. Popkiewicz M. 2012. Świat na rozdrożu Wyd. Sonia Draga 4. Popkiewicz M., Kardaś A., Malinowski Sz. 2018 . Nauka o klimacie. Wyd. Sonia Draga 	
	Supplementary literature	<ol style="list-style-type: none"> 1. Chełmicki W. 2002. Woda zasoby, degradacja, ochrona. PWN. 2. Craig J.R., Vaughan D. J., Skinner B. J. 2003. Zasoby Ziemi. PWN. 3. Mannion A. M. 2001. Zmiany środowiska Ziemi. PWN. 4. Rosik-Dulewska Cz. 2008. Podstawy gospodarki odpadami, PWN. 5. Pullin A.S. 2012. Biologiczne podstawy ochrony przyrody. PWN, Warszawa. 6. Fudali E. 2009. Antropogeniczne zmiany w ekosystemach. UWP, Wrocław. 	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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