

Subject card

Subject name and code	Biodiversity Conservation, PG_00154746						
Field of study	Biology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Magdalena Lazarus				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	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	15		3.0		7.0	25
Subject objectives	Familiarization with the concept of biological diversity, methods of its assessment, its threats and protection.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BIOLMU2_W01] the graduate has an in-depth knowledge and understanding of natural phenomena and processes at different levels of complexity		The student understands natural phenomena and processes at various levels of complexity.		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion		
	[BIOLMU2_W04] the graduate has an in-depth knowledge of the chosen specialisation in the biological sciences		The student has in-depth knowledge of biological diversity, methods of its assessment, threats and protection.		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion		
	[BIOLMU2_W05] the graduate understands the dynamic development of the biological sciences and is familiar with new research directions and disciplines		The student notices the dynamic development and emergence of new directions in biological sciences and research disciplines such as molecular ecology.		[SW4] test/exam - oral or written		
Subject contents	Definition of biological diversity, levels at which it is considered, methods of determining the degree of diversity, factors influencing the degree of biological diversity (including anthropogenic factors). Biogeographic zones of the earth, types of ranges, concepts of endemic, relict, cosmopolitan species. Anthropogenic changes in plant cover and fauna. Forms of nature protection in the world, nature conservation problems, protection of animal migration corridors. Processes of population decline of selected species of flora and fauna in Poland and analysis of their causes. The problem of expansive and invasive species, the problem of genetically modified plant species. The role of botanical and zoo gardens and seed banks in ex situ species conservation. Economic and political aspects of global destruction of nature. International aspects of biodiversity conservation, genetic aspects of conservation biodiversity.						
Prerequisites and co-requisites	None.						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Written assessment		51.0%		100.0%		

Recommended reading	Basic literature	1. Pullin A. S. 2004. Biologiczne podstawy ochrony przyrody. PWN, Warszawa2. Freeland J. R. 2008. Ekologia molekularna. PWN, Warszawa3. Andrzejewski R. i Weigle A. (red.). 2003. Różnorodność biologiczna Polski. Drugi polski raport 10 lat po Rio. Na-rodowa Fundacja Ochrony Środowiska, Warszawa (wybrane rozdziały)4. Sienkiewicz J. 2010. Koncepcje bioróżnorodności ich wymiary i miary w świetle literatury. Ochrona Środowiska i Zasobów Naturalnych 45: 7-295. Głowaciński Z., Okarma H., Pawłowski J., Solarz W. (red.) 2012. Gatunki obce w faunie Polski. Wyd. internetowe. Instytutu Ochrony Przyrody PAN w Krakowie.
	Supplementary literature	1. Dajdok Z., Palwaczyk P (red.). 2009. Inwazyjne gatunki roślin ekosystemów mokradłowych Polski. Wyd. Klubu Przyrodników, Świebodzin2. Kornaś J., Medwecka-Kornaś A. 2002. Geografia roślin. PWN, Warszawa3. Mirek Z. 2010. Biological invasions in Poland. Instytut Botaniki im. W. Szafera PAN, Kraków4. Mirek Z., Nikel A., Paul W., Wilk Ł. (red.). 2005. Ostoje roślinne w Polsce. Instytut Botaniki im. W. Szafera PAN, Kraków5. Tokarska-Guzik B. 2005. The establishment and spread of alien plant species (kenophytes) in the flora of Poland. Wyd. Uniw. Śląsk., Katowice6. Kędziora A., Karg J. 2010. Zagrożenia i ochrona różnorodności biologicznej. Nauka 4: 107-113
	eResources addresses	
Example issues/ example questions/ tasks being completed	1. Discuss the impact of habitat fragmentation on biodiversity. 2. Provide and describe reasons why public interest in biodiversity conservation is low.	
Work placement	Not applicable	

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