University of Gdańsk

Subject card

Subject name and code	Biodiversity Conservation, PG_00154746		
Field of study	Biology		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	postgraduate 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	
Conducting unit	Faculty of Biology		
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_K05] the graduate is prepared to use recognised sources of scientific and popular information in the biological sciences to further his or her knowledge	The student understands the need to use recognized sources of scientific information in the field of biological sciences in order to deepen their knowledge.	[SK8] observation of student's independent or team work
[BIOLMU2_U07] the graduate is able to critically confront biological information from a variety of sources and, on this basis, draw valid conclusions	The student critically confronts biological information from various sources and on this basis draws justified conclusions.	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written [SU8] observation of student's independent or team work
[BIOLMU2_W05] the graduate knows and understands the dynamic development of the biological sciences and 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
[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_W01] the graduate knows and understands 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

<table>
<tr><td>Subject contents</td><td>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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>None.</td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Written assessment</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>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.</td></tr><tr><td>Supplementary literature</td><td>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</td></tr><tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>1. Discuss the impact of habitat fragmentation on biodiversity.

2. Provide and describe reasons why public interest in biodiversity conservation is low.</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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