University of Gdańsk

Subject card

Subject name and code	Nature conservation programs and methods, PG_00198140		
Field of study	Natural Resources Conservation		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2028/2029
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group 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	3	Language of instruction	Polish
Semester of study	6	ECTS credits	1.0
Learning profile	academic	Assessment form	credit
Conducting unit	Laboratory of Geobotanics and Nature Conservation -> Department of Plant Taxonomy and Nature Conservation -> Faculty of Biology -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Piotr Rutkowski, prof. UG	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	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	2.0	8.0	25

Subject objectives

To understand problems and present practical solutions in the field of nature and environmental protection. To learn about nature conservation programs implemented at the national and global levels. To learn about practical forms and methods of nature conservation directly in field conditions. To learn about the methods of active nature conservation in situ and ex situ. To understand the causes and directions of environmental degradation and to know ways to protect components of inanimate nature.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OZPL3_W09] The graduate possesses an advanced comprehension of the current state of knowledge and the latest trends in protection of natural resources, as well as their relationship to other natural disciplines	The graduate explains the relationship between the achievements 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
[OZPL3_W07] The graduate has an advanced understanding of the methods and means of nature and environmental protection, including nature monitoring	The graduate introduces methods and ways to protect nature and the environment at national and global level, including nature monitoring	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work [SW5] implementation of a problem task
[OZPL3_U07] The graduate is able to draw correct conclusions on the basis of analysis and synthesis of data from various sources	The graduate draws correct conclusions on the basis of analysis and synthesis of data from various sources	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU4] test/exam - oral or written [SU5] implementation of a problem task [SU8] observation of student's independent or team work
[OZPL3_U03] The graduate is able to search for and use available sources of biological information, including electronic sources, and critically analyse them	The graduate searches and uses available sources of biological information, including electronic sources, and critically analyzes them	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU4] test/exam - oral or written [SU5] implementation of a problem task [SU8] observation of student's independent or team work

Subject contents

Types of protected areas in Poland against a background of similar legal solutions in other countries of Europe and the world. The application of particular types of protected areas for the protection of natural habitats, ecosystems, species, landscapes, local natural peculiarities, hydrological, geomorphological and geological values. European Ecological Network Natura 2000 (international and national legislation). Agri-environmental programmes. The role of NGO's in nature conservation. Methods of active nature conservation in situ and ex situ. Forms of in situ active conservation measures - introduction, reintroduction, assisting species reproduction in natural sites. Conservation of the species' habitat. Renaturalisation and restoration of the species' habitat. Restoration of green spaces. Tree and avenue protection methods. Designation, protection and maintenance of migration corridors. Protection of valuable inanimate nature sites. Forms of ex situ active nature conservation measures. Conservation cultivation and breeding. The role and tasks of gene banks. Nature conservation law as a practical tool for nature conservation.

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

- Guziak R., Lubaczewska S. (red.) 2001. Ochrona przyrody w praktyce: podmokłe łaki i pastwiska. PTPP proNatura, Wrocław.
- Gwiazdowicz D. J. (red.) 2004. Ochrona przyrody w lasach. I. Ochrona zwierzat. Polskie Towarzystwo Lesne Oddział Wielkopolski, 141 ss. Gwiazdowicz D. J. (red.) 2005. Ochrona przyrody w lasach. II. Ochrona szaty roslinnej. Polskie Towarzystwo Lesne Oddział Wielkopolski, 189 ss.
- Matuszkiewicz W. 2014. Przewodnik do oznaczania zbiorowisk roslinnych Polski. PWN, Warszawa
- Olaczek R. (et al.). 1996. Instrukcja sporzadzania planow ochrony dla rezerwatow przyrody. Projekt. MOSZNiL, Warszawa.

Supplementary literature

- Andrzejewski R. (red.). 1991. Ekologiczne podstawy gospodarowania srodowiskiem przyrodniczym. Wizje - problemy - trudnosci. Materiały CPBP 04.10 77:1-328.
- Armand D.L. 1980. Nauka o krajobrazie. PWN, Warszawa.
- Drobnik J. 2007. Zielnik i zielnikoznawstwo, PWN, Warszawa.
- Dzwonko Z. 2007. Przewodnik do badan fitosocjologicznych. Sorus, Poznan, 312 ss.
- Gorski W., Herbich J., Koss M., Kuklik M., Lazarus M., Łeczynski L., Pawliczka vel Pawlik I., Skora K., Szmidt K., Wozniakowski A., Wszałek-Rozek K., 2015. Rewitalizacja szaty roslinnej i wydmowych siedlisk przyrodniczych Cypla Helskiego. (pr. zb. Jacek Herbich, Krzysztof Skora red.) Fundacja Rozwoju Uniwersytetu Gdanskiego, Gdansk, 178 ss.
- Zarzycki K., Tacik-Trzcinska H., Rozanski W., Szelag Z., Wołek J., Korzeniak U. 2002. Ekologiczne liczby wskaznikowe roslin naczyniowych Polski. Instytut Botaniki PAN, Krakow.
- Zarzycki K., Wojewoda W., Heinrich Z. (red.) 1992. Lista roslin zagrozonych w Polsce. Inst. Botaniki im W. Szafera, Krakow.

eResources addresses

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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