University of Gdańsk

Subject card

Subject name and code	Plant ecology, PG_00103587						
Field of study	Environmental Protection						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2028/2029			
Education level	Bachelor's studies		Subject group	Optional subject group			
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	2.0			
Learning profile	academic		Assessment form	exam			
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Krzysztof Banaś				
	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		5.0	15.0	50	
Subject objectives	1. To give basic knowledge of the biology and ecology of plants, the structure and dynamics of their populations and communities.2. The ability to diagnose the natural environment on the basis of the acquired knowledge.3. Knowledge of selected methods used in population ecology.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OŚL3_U04] Uses specialist language in the discussion and properly uses the nomenclature in the field of environmental protection and individual disciplines related to it.	Understands and evaluates the processes taking place in nature and the impact of humans on the environment; correctly uses the concepts of plant ecology	[SU4] test/exam - oral or written
[OŚL3_W02] Characterises the relationships and relationships between various disciplines of natural sciences and science, uses knowledge of mathematics, physics, chemistry and biology in the description of basic concepts, concepts and principles in environmental protection.	names and describes the basic ecological processes at different levels organization of nature	[SW4] test/exam - oral or written
[OŚL3_W09] Describes the basic methods, techniques and tools that allow the rational use, shaping and restoration of natural resources.	Recognizes the importance of plant ecology in protecting the environment and natural resources	[SW4] test/exam - oral or written
[OŚL3_K06] Knows and appreciates the practical application of the acquired knowledge and skills in solving problems.	Recognizes, appreciates and promotes knowledge of plant ecology in the protection of the environment, especially nature	[SK4] test/exam - oral or written [SK8] observation of student's independent or team work
[OŚL3_W05] Explains the course of natural and anthropopressional physical, chemical and biological processes and phenomena occurring in nature at various levels of matter organisation.	defines the basic concepts of plant ecology and defines its research methods	[SW4] test/exam - oral or written

Subject contents

Review of general biological and ecological theories. Adaptations to environmental conditions. Levels of organization. Structure, dynamics, demography and spatial organization of populations. Reproduction, mortality, sex and age distribution of populations. Mathematical models of population growth and survival. Theoretical basis for predicting the fate of populations. Coexistence of plants and animals. Structure and dynamics of phytocoenoses. Succession, regression, degeneration and regeneration of phytocenoses. Persistence of vegetation in time and space.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Written exam with open-ended and/or test questions	51.0%	100.0%

Recommended reading

Basic literature	n/a
Supplementary literature	n/a
eResources addresses	

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

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