

Subject card

Subject name and code	Plant ecology, PG_00154442						
Field of study	Biology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
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	5		ECTS credits		1.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Laboratory of Freshwater Ecology -> Department of Plant Ecology -> Faculty of Biology -> Rector						
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	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	1. to impart basic knowledge of the biology and ecology of plants, the structure and dynamics of their populations and communities. 2. ability to diagnose the natural environment on the basis of the acquired knowledge. 3. ability to describe the phytocenosis in the light of the concept of population structure of vegetation.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOLL3_W07] The graduate is conversant with the types of natural environments (habitats) from a structural and functional perspective, as well as the selected species of flora and fauna of coastal areas and the methods and forms of nature conservation	names and describes the basic ecological processes at different levels of nature's organization (individual, population, phytocenosis)	[SW4] test/exam - oral or written
	[BIOLL3_W05] The graduate knows the rules and describe the mechanisms of life at the population, biocenosis and ecosystem levels and the temporal and spatial determinants of biodiversity	explains the basic rules and describes the mechanisms of population, phytocenosis and ecosystem functioning, as well as the spatial determinants of biodiversity	[SW4] test/exam - oral or written
	[BIOLL3_U07] The graduate should be able to independently search for and use available sources of biological information, including electronic sources	demonstrates the ability to critically analyze and select information on ecological phenomena and processes, use available sources of ecological information	[SU4] test/exam - oral or written
	[BIOLL3_U05] The graduate will be able to synthesise data from a variety of sources and draw appropriate conclusions	demonstrates the ability to critically analyze and select information on ecological phenomena and processes at different levels of nature's organization	[SU4] test/exam - oral or written
	[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	Recognizes, appreciates and promotes the knowledge of plant ecology in the protection of the environment, especially nature	[SK4] 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	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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