

Subject card

Subject name and code	Plant ecology, PG_00207449						
Field of study	Biology						
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	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, 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		1.0		9.0	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_W06] knows the types of natural habitats, selected species of flora and fauna (with particular emphasis on coastal environments) as well as methods of nature conservation and the principles of sustainable development		
	[BIOLL3_W03] knows and understands at an advanced level the principles of life functioning at the level of populations, biocenoses and ecosystems, the determinants of biological diversity as well as the mechanisms and molecular basis of the evolution of organisms		
	[BIOLL3_U03] is able to search for, select and critically analyze information from various sources, including scientific literature and electronic databases, as well as read and understand scientific texts in Polish and English		
	[BIOLL3_U02] is able to use statistical methods, IT tools and data analysis techniques to describe biological phenomena, as well as synthesize information from various sources and formulate correct conclusions based on them		
	[BIOLL3_K01] is ready to critically evaluate her/his biological knowledge and continuously update and develop it, taking into account scientific advances and the needs of practice		
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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