

Subject card

Subject name and code	Coastal ecosystems, PG_00146027						
Field of study	Ekosystemy nadmorskie (Ćw. audytoryjne)						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025		
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		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 Magdalena Lazarus				
	Teachers		dr Magdalena Lazarus				
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	0.0	10.0	25		
Subject objectives	Familiarization with the richness and ecological diversity of coastal ecosystems found in Poland and around the world in relation to natural environmental factors (historical and contemporary) and human activity. Discussion of the causes, directions and effects of changes taking place in the diversity of these ecosystems.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOLL3_K01] the graduate is ready to evaluate his own knowledge and understands the need for continuous learning and development and is open to new ideas		
	[BIOLL3_U07] the graduate is able to independently search and use available sources of biological information, including electronic sources		
	[BIOLL3_W07] the graduate knows types of natural environments (habitats) from the structural and functional point of view, selected species of flora and fauna of coastal areas, and methods and forms of nature conservation		
	[BIOLL3_W05] the graduate knows the rules and describes the mechanisms of life at the population, biocenosis and ecosystem levels, as well as the temporal and spatial determinants of biodiversity		
Subject contents	Types of coastal ecosystems occurring in Poland and around the world (selected examples). Specific environmental conditions associated with the seashore and the adaptation of organisms to function in these conditions. Characteristics of selected coastal ecosystems in terms of their genesis, functioning and succession. Zonation. Effects of soil salinity. Threats and protection of coastal ecosystems. Modern scientific research conducted in coastal ecosystems.		
Prerequisites and co-requisites	None.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Final test	51.0%	80.0%
	Presentation evaluation	51.0%	20.0%
Recommended reading	Basic literature	Matuszkiewicz W. 2014. Przewodnik do oznaczania zbiorowisk roślinnych Polski. PWN, Warszawa. Piotrowska H. 2002. Zbiorowiska samofilne na wydmach polskiego Brzegu Bałtyku. Acta Bot. Cassubica 3: 5-47. Piotrowska H. 2003. Zróżnicowanie i dynamika nadmorskich lasów i zarośli w Polsce. Bogucki Wyd. Nauk., Poznań-Gdańsk, 102 ss. + 47 tabel.	
	Supplementary literature	Adam P. 1990. Saltmarsh ecology. Cambridge University Press, 461ss. Barbier, E. B., Hacker, S. D., Kennedy, C., Koch, E. W., Stier, A. C., Silliman, B. R. 2011. The value of estuarine and coastal ecosystem services. Ecological Monographs, 81: 169-193. Falińska K. 2004. Ekologia roślin. PWN, Warszawa. Lazarus M., Wszalek-Rożek K. 2016. Two rare halophyte species: Aster tripolium L. and Plantago maritima L. on the Baltic coast in Poland-their resources, distribution and implications for conservation management. Biodiv. Res. Conserv. 41:51-60. Piotrowska H. 1974. Nadmorskie zespoły solniskowe w Polsce i problemy ich ochrony. Ochr. Przyr. 39: 7-63. Piotrowska H. (red.). 1997. Przyroda Słowińskiego Parku Narodowego. Bogucki Wyd. Nauk., Poznań-Gdańsk, 320 ss.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Coastal ecosystems protection areas in Poland and in Europe - examples 2. Coastal protection structures - pros and cons of building and maintaining them		
Work placement	Not applicable		

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