

Subject card

Subject name and code	Principles of Marine Botany - laboratory , PG_00206165						
Field of study	Oceanography						
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			3.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Department of Marine Ecosystems Functioning -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Sylwia Śliwińska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	45.0	0.0	0.0	45
	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	45	3.0	27.0	75		
Subject objectives	To familiarise students with the taxonomic division of the plant world and prokaryotic organisms associated with the marine environment, learning about their structure, habitat, importance.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[OCEANL3-W03] has an advanced understanding of the relationships between living and non-living components of aquatic environments, and is aware of the complex nature, intricacy, and natural variability of these environments		Student has an advanced knowledge and understands the interactions between living and non-living elements of the aquatic environment, is aware of the complex nature of marine environments, their complexity and natural variability, especially concerning phytoplankton and marine phytobenthos.		[SW4] test/exam - oral or written		
	[OCEANL3-W05] has an advanced knowledge of techniques, research methods, and tools (mathematical, statistical, and computational) used by oceanographers to describe and interpret processes and phenomena occurring in the marine environment		Student is familiar with the advanced knowledge of techniques, research methods and tools (mathematical, statistical, IT) used in the work of a marine botanist to describe and interpret processes and phenomena in the marine environment.		[SW4] test/exam - oral or written		
	[OCEANL3-U03] is able to process, describe, and present results, and draw conclusions		Student is able to compile, describe and present the results of various investigations and, on this basis, formulates conclusions about marine phytoplankton and phytobenthos communities.		[SU2] presentation/project/paper/report [SU4] test/exam - oral or written		

Subject contents	1. Research tools and methods currently used in the work of marine botanist. 2. Systematics and morphological characteristics of groups of organisms traditionally classified as marine plants (cyanobacteria, dinoflagellates, chrysophytes, green algae, brown algae, kelp, higher plants). 3. Work on identification of selected taxa using microscopes and binoculars.		
Prerequisites and co-requisites	none		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test	51.0%	75.0%
	Presentation	51.0%	25.0%
Recommended reading	Basic literature	1. Szweykowska A., Szweykowski J., 2003, Botanika, Tom I Morfologia, PWN, Warszawa 2. Szweykowska A., Szweykowski J., 2003, Botanika, Tom II Systematyka, PWN, Warszawa 3. Pliński M. i in., 2008-2012, Glony Zatoki Gdańskiej i wód przyległych, część I-VIII, Wydawnictwo Uniwersytetu Gdańskiego	
	Supplementary literature	1. Kadłubowska J., 1975, Zarys algologii, PWN, Warszawa	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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