

Subject card

Subject name and code	Principles of marine botany - laboratory exercises, PG_00118107						
Field of study	Oceanography						
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		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 Filip Pniewski				
	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		10.0		30.0	85
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-U03		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		
	OCEANL3-W05		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-W03		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		

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
		51.0%	75.0%
		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, Głony 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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