University of Gdańsk

Subject card

Subject name and code	Principles of Marine Botany - laboratory , PG_00206165		
Field of study	Oceanography		
Date of commencement of studies	October 2027	Academic year of realisation of subject	2029/2030
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, prof. UG	
	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

<table>
<tr><td>Subject contents</td><td colspan="3">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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">none</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Presentation</td><td>51.0%</td><td>25.0%</td></tr><tr><td>Test</td><td>51.0%</td><td>75.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">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</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">1. Kadłubowska J., 1975, Zarys algologii, PWN, Warszawa</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3"></td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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