University of Gdańsk

Subject card

Subject name and code	Biogeography of the Seas and Oceans - lectures, PG_00205289		
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	6	ECTS credits	1.0
Learning profile	academic	Assessment form	exam
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor	dr Anna Panasiuk	
	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

To familiarize students with the basics of the variability of flora and fauna communities in the water column and on the seabottom on a global scale, with the biogeographic divisions of seas and oceans.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OCEANL3-W06] has an advanced understanding of the principles of managing the marine environment and its resources, as well as the consequences of disrupting the balance of marine ecosystems	student knows and understands the basic legal regulations and principles regarding the sustainable development of the marine environment and nature conservation, as well as the management of the marine environment and its resources in a global perspective	[SW4] test/exam - oral or written
[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 knows and understands at an advanced level the relationships between animate and inanimate elements of the aquatic environment, identifies and correctly describes basic natural phenomena and explains their course in relation to factors influencing the distribution of marine flora and fauna	[SW4] test/exam - oral or written
[OCEANL3-W01] has an advanced knowledge and understanding of the terminology used in oceanography and related exact and natural sciences (in Polish and a selected foreign language)	student has an advanced knowledge and understanding of the terminology in natural sciences (in Polish, English and/or Latin), with particular emphasis on the biogeographical foundations of the division of seas and oceans	[SW4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td colspan="3">1. Characteristics of biogeographic regions - biogeographic divisions (criteria for division into bioregions, provinces, etc.). 2. Biogeographic characteristics of cold regions - the Arctic and Antarctic. 3. Characteristic water masses, characteristic fauna communities within the boreal and notal regions; differences in fauna life in the boreal-Mediterranean and boreal-Pacific subregions and in semi-enclosed seas. 4. Uniqueness of water column and seabed complexes of the tropical region: coral reefs as the most mature ecosystem in the sea. 5. Biogeography of the hadal and abyssal: typical fauna communities, horizontal differentiation of settlement, endemics and cosmopolitans, spread of species.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td colspan="3"></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>exam</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Lomolino M. V., Brown J. H., Riddle B. R. (2005) Biogeography, Sunderland: Sinauer Associates
Longhurst A. (2007) Ecological geography of the sea. Elsevier, Academic Press, San Diego.
Luning K. (1990) Seaweeds, Their environment, biogeography, and ecophysiology. John Wiley & Sons. Inc. New York.
Wiktor K., Węsławski J. M., Żmijewska M. I. (1997) Biogeografia Morza, Wyd. UG. Gdańsk. (in polish)</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Bailey R. G. (1998) Ecoregions: the ecosystem geography of the oceans and continents. Springer, New York.
Blaxter J. H. S., Southward A. J. (1997) The Biogeography of the Ocean. In: Advances in Marine Biology, Academic Press, San Diego
Cox C. B., Moore P. D. (2010) Biogeography: An ecological and Evolutionary Approach, John Wiley & Sons, Hoboken
Gage J. D., Tyler P. A. (1991) DEEP-SEA BIOLOGY: A natural history of organisms at the deep-sea floor. University Press, Cambridge.</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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