University of Gdańsk

Subject card

Subject name and code	Biological Valuation and Impact Assessment of the Marine Environment - lecture, PG_00205287		
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	1.0
Learning profile	academic	Assessment form	exam
Conducting unit	Laboratory of Biodiversity and Benthic Functioning -> Department of Marine Ecology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Urszula Janas, prof. UG	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	10.0	0.0	0.0	0.0	0.0	10

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	10	1.0	14.0	25

Subject objectives

Developing knowledge on methods of inventory and natural valorization of coastal and marine areas, predicting the effects of human impact on the functioning of marine biotopes, and search for solutions to reduce the negative impact of the of the planned project on the marine environment

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	Has advanced knowledge of the principles of biotic resource management and the consequences of marine ecosystem imbalance	[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	Has advanced knowledge of research techniques and methods used to inventory and valorize the natural components of the marine environment	[SW4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td colspan="3">Objectives and methods of inventory and natural valuation of the marine environment, valuation criteria (among others, key areas and species, value of species and habitats for marine ecosystems). Legal aspects, among others, areas and species protected by national and international law.Assessment of the impact of various uses of marine areas (including offshore wind farms, ports and other structures, storage, mining, tourism) on marine biotopes.Predicting the effects of human impact on the environment. Assessment of the impact of investments on the environment - forecasts and reports</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>written exam with open-ended questions (tasks)</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">Gray J. S., Elliott M., 2009, Ecology of Marine Sediments-from science to Management, Oxford Univerity Press, 225 str</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Kruk-Dowgiałło, L., (red) 2000. Przyrodnicza waloryzacja morskich części obszarów chronionych HELCOM BSPA województwa pomorskiego, tom 3, Nadmorski Park Krajobrazowy. CRANGON 7, CBM PAN w Gdyni, pp: 53-55.

Gic-Grusza, G., Kryla-Staszewska, L., Urbanski, J., Warzocha, J., Weslawski, J.M., (Red.). 2009. Atlas siedlisk dna polskich obszarów morskich. Waloryzacja przyrodnicza siedlisk morskich, Broker-Innowacji, Gdynia. pp: 179</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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