University of Gdańsk

Subject card

Subject name and code	Marine Environment Protection - lecture, PG_00205007		
Field of study	Oceanography		
Date of commencement of studies	October 2027	Academic year of realisation of subject	2027/2028
Education level	Master'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	1	Language of instruction	Polish
Semester of study	2	ECTS credits	2.0
Learning profile	academic	Assessment form	exam
Conducting unit	Laboratory of Toxic Substances Transformation -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Dominika Saniewska, prof. UG	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	0.0	0.0	30

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	30	2.0	18.0	50

Subject objectives	To familiarize students with the main problems of marine environmental protection.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OCEANMU2-W07] knows and understands legal regulations, principles of sustainable development of the marine environment, its protection and management of the marine environment and its resources	Know and understand the basic regulations and principles in the field of marine environmental protection.	[SW4] test/exam - oral or written
[OCEANMU2-W06] knows and identifies potential threats to the marine environment on a local and global scale resulting from strong anthropopressure, predicts their effects on various time and space scales	Know and understand the potential threats to the marine environment from human activities.	[SW4] test/exam - oral or written
[OCEANMU2-U01] is able to formulate and solve complex and unusual problems regarding the functioning of individual components of the marine environment using knowledge from various fields and scientific disciplines and propose solutions	Can formulate and solve problems related to marine environmental protection.	[SU4] test/exam - oral or written
[OCEANMU2-U02] is able to fluently and accurately use scientific terminology when presenting and discussing oceanographic issues, and to propose and justify innovative solutions	Can independently expand the knowledge of marine environmental protection.	[SU4] test/exam - oral or written

Subject contents

A.1 Regulations and international conventions relating to the protection of the marine environment (i.a. MARPOL 73/78, HELCOM).
A.2 Selected Polish legislation relating to the protection of the marine environment
a. maritime areas of the Republic of Poland,
b. tasks of maritime administration in the field of protection of the marine environment,
c. monitoring of the marine environment;
A.3 Protection of the sea from pollution caused by ships:
a. pollution from failure-free operation of ships,
b. disasters of oil tankers and oil rigs,
c. reduction of oil spills at sea,
d. elimination of oil spills by physical and chemical methods (sorbents, dispersants, incineration).
e. oil spills in the Baltic Sea,
f. hazardous substances transported in bulk;
A.4 Storage of hazardous substances and waste at sea as a means of disposal:
a. chemical warfare agents (CWs) dumped in the Baltic Sea,
b. nuclear arsenals in the seas and oceans,
c. dredged material from the dredging of waterways.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Exam	51.0%	100.0%

Recommended reading	Basic literature	Bolałek J., 2016. Ochrona środowiska morskiego - od teorii do praktyki. Wyd. Uniw. Gdańskiego, Gdańsk Korzeniewski K., 1998. Ochrona środowiska morskiego. Wyd. Uniw. Gdańskiego, Gdańsk Ustawa z dnia 21 marca 1991 r o obszarach morskich RP (Dz.U. z 1991 r. Nr 32, poz.131 z późniejszymi zmianami) Ustawa z dnia 16 marca 1995 r. o zapobieganiu zanieczyszczeniu przez statki (Dz.U. Nr 47, poz. 243) Konwencja MARPOL 73/78 Konwencja o ochronie środowiska morskiego obszaru Morza Bałtyckiego z 9.04.1992 r. Informacje z dostępnych źródeł nt ostatnich bieżących katastrof ekologicznych na morzu.
	Supplementary literature	Graczyk T., Piskorski Ł., Siemianowski R., 2001. Ochrona środowiska morskiego przez zanieczyszczeniami z obiektów oceanotechnicznych.
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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