

Subject card

Subject name and code	Marine environment protection, PG_00052753						
Field of study	Environmental Protection						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study 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	2		Language of instruction		Polish		
Semester of study	3		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				
	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		5.0		15.0	50
Subject objectives	To familiarize students with the main problems of marine environmental protection.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[OŚMU2_W01] Describes complex phenomena and processes occurring in nature, including those related to the spread of anthropogenic pollution.		It describes in an in-depth manner the complex phenomena and processes in nature, including those related to the spread of anthropogenic pollution.		[SW4] test/exam - oral or written		
	[OŚMU2_U01] On the basis of the acquired knowledge, proposes to solve environmental problems.		Based on its knowledge, it proposes solutions to environmental problems.		[SU4] test/exam - oral or written		
	[OŚMU2_U09] Interprets policy documents in the field of environmental protection in relation to Polish and international legal regulations.		Interprets environmental policy documents with reference to Polish and international legal regulations.		[SU4] test/exam - oral or written		
	[OŚMU2_W08] Explains the mechanisms of unit processes used in environmental protection and waste management methods.		Explains the mechanisms of unit processes used in environmental protection and waste management methods.		[SW4] test/exam - oral or written		
Subject contents	A.1 Regulations and international conventions relating to the protection of the marine environment (HELCOM, Agenda 21, MARPOL 73/78).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
	Egzamin	51.0%	100.0%
Recommended reading	Basic literature	Bołalek J., 2016. Ochrona środowiska morskiego od teorii do praktyki. Wydaw. Uniw. Gdańskiego, Gdansk, 313.Korzeniewski K., 1998. Ochrona środowiska morskiego. Wyd. Uniw. Gdańskiego, GdańskUstawa 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 73/78Konwencja o ochronie środowiska morskiego obszaru Morza Bałtyckiego z 9.04.1992 r.Information from available sources on recent current environmental disasters at sea.	
	Supplementary literature	Graczyk T., Piskorski Ł., Siemianowski R., 2001. Ochrona środowiska morskiego przez zanieczyszczeniami z obiektów oceanotech-nicznych. Politechnika Szczecińska, Szczecin.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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