

Subject card

Subject name and code	Marine Environment Protection I (Lecture), PG_00181442						
Field of study	Marine Hydrography						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2023/2024		
Education level	Bachelor's studies		Subject group		Obligatory subject group 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	1		ECTS credits		1.0		
Learning profile	practical		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Dominika Saniewska				
	Teachers		dr hab. Dominika Saniewska				
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 main issues related to marine environmental protection.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		

Subject contents	A.1 Selected Polish legislation concerning marine environmental protection		
	a. Maritime areas of the Republic of Poland,		
	b. Responsibilities of the maritime administration in the field of marine environmental protection;		
	A.2 Protection of the sea from pollution caused by ships:		
	a. Pollution from the normal (non-accidental) operation of ships,		
	b. Tanker and offshore drilling platform disasters,		
	c. Prevention of oil spills at sea,		
	d. Removal of oil spills using physicochemical methods (sorbents, dispersants, burning),		
	e. Oil spills in the Baltic Sea,		
	f. Hazardous substances transported in bulk;		
Prerequisites and co-requisites	A.3 Disposal of hazardous substances and waste in the sea as a method of their elimination:		
	a. Chemical warfare agents (CWAs) dumped in the Baltic Sea,		
	b. Nuclear arsenals in seas and oceans,		
	c. Dredged material from waterway deepening.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test	51.0%	100.0%
Recommended reading	Basic literature	Bolalek 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).	
	Supplementary literature	Graczyk T., Piskorski Ł., Siemianowski R., 2001. Ochrona środowiska morskiego przez zanieczyszczeniami z obiektów oceanotechnicznych. Politechnika Szczecińska, Szczecin.	
		Wiewióra A., 2004. Ochrona środowiska morskiego w eksploatacji statków. Fund. Rozw. WSM w Szczecinie, Szczecin.	
Example issues/ example questions/ tasks being completed	Information from available sources on current environmental disasters at sea.		
	eResources addresses		
Example issues/ example questions/ tasks being completed	How should contaminated dredged material be handled?		
	List the main methods of oil spill cleanup. What are radioactive isotopes?		

Work placement	Not applicable
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