

Subject card

Subject name and code	, PG_00041837								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of	October 2020 Academic year of 2021/2022								
studies			realisation of subject			2021/2022			
Education level	first-cycle 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	Part-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			3.0			
Learning profile	general academic pro		Assessment form			assessment			
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Piotr Bzura						
	Teachers dr inż. Piotr Bzura								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	20.0	0.0	0.0	0.0		10.0	30	
	E-learning hours inclu	ided: 0.0	•	•	•		•	•	
	Adresy na platformie eNauczanie:								
	Ochrona środowiska, W, niestacjonarne, OCE, sem.4, letni 21/22 (PG_00041837) - Moodle ID: 22245 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22245								
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Learning activity and number of study hours	Learning activity	Participation ir classes including		Participation i consultation h			udy	SUM	
	Number of study hours	30		3.0		42.0		75	
Subject objectives	To acquaint students with the main problems related to the protection of the marine environment.								
Learning outcomes	Course out	come	Subi	ect outcome		Method of verification			
G	[K6_K03] understands non- technical aspects and effects of operation as an engineer, its influence on the environment and is aware of the responsibilities for the decisions taken		Explains the main assumptions of the basic international conventions related to the protection of the marine environment			[SK2] Assessment of progress of work			
	[K6_W03] has a basic knowledge on hydromechanics, thermodynamics, machine construction, ecology, materials science and electronics necessary to understand the construction and operation principles of ocean technology objects and equipment		Selects methods of fighting oil spills			[SW2] Assessment of knowledge contained in presentation			
Subject contents	1 Regulations and international conventions relating to the protection of the marine environment (HELCOM, Agenda 21, MARPOL 73/78). 2 Selected Polish legislation on the protection of the marine environment a. maritime areas of the Republic of Poland, b. tasks of the maritime administration in the field of marine environment protection, c. monitoring of the marine environment. 3 Protection of the sea against pollution caused by ships: a. pollution from failure-free operation of ships, b. tankers and oil rigs disasters c. limiting oil spills at sea, d. elimination of oil spills with physicochemical methods (sorbents, dispersants, combustion) e. oil spills in the Baltic Sea, f. dangerous substances shipped in bulk. 4 Storage of hazardous substances and waste at sea as a means of their disposal: a. poisonous warfare agents (BST) dumped in the Baltic Sea, b. nuclear arsenals in seas and oceans, c. spoil from dredging fairways.								
Prerequisites	e. oil spills in the Balti and waste at sea as a	ic Sea, f. dange a means of thei	erous substanc r disposal: a. p	es shipped in l oisonous warfa	bulk. 4 S are agei	Storage	of hazardous	substances	

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Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	credit	50.0%	50.0%			
	test	50.0%	50.0%			
Recommended reading	Basic literature	Bolałek J., 2016. Ochrona środowiska morskiego od teorii do praktyki. Wydaw. Uniw. Gdańskiego, Gdansk, 2016.				
		Małaczyński M.: Technika ochrony przed zanieczyszczeniami ze statków. Wyd. Morskie, Gdańsk 1979				
	Supplementary literature	Graczyk T., Piskorski Ł., Siemianowski R., 2001. Ochrona środowiska morskiego przez zanieczyszczeniami z obiektów oceanotechnicznych. Politechnika Szczecińska, Szczecin				
	eResources addresses	Ochrona środowiska, W, niestacjonarne, OCE, sem.4, letni 21/22 (PG_00041837) - Moodle ID: 22245 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22245				
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Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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