

Subject card

Subject name and code	, PG_00041837								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of studies	October 2020		Academic year of 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			
Mada af abodo	Part-time studies Mode of delivery				research in the field of study at the university				
Mode of study	2		Mode of delivery			Polish			
Year of study	4		Language of instruction			3.0			
Semester of study	general academic profile		ECTS credits			assessment			
Learning profile			Assessment form						
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology							a Snip	
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Piotr Bzura							
	Teachers	Bzura							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	20.0	0.0	0.0	0.0		10.0	30	
	E-learning hours included: 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 in classes include plan				Self-study		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	Subject outcome			Method of verification				
	[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 Prerequisites	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.								
and co-requisites									

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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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