

Subject card

Subject name and code	Ship Structures I, PG_00046523								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of									
studies			Academic year of realisation of subject			2021/2022			
Education level	first-cycle studies		Subject group			Optional subject group			
						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			2.0	2.0		
Learning profile	general academic pro	Assessme	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. Krzysztof Wołoszyk						
	Teachers dr inż. Krzysztof Wołoszyk								
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		0.0	20	
	E-learning hours inclu	uded: 0.0	1	'	Į.		•	'	
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14468 Adresy na platformie eNauczanie:								
	Additional information: Classes in the form of webinars are held on the Jitsi Meet platform at:https://meet.jit.si/ ProminentMoneysNarrowAny								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-s	tudy	SUM	
	Number of study hours	20		2.0		28.0		50	
Subject objectives	To give students info	rmation on:							
	- methods to predict wave loads on ships; - design loads for ship hulls;								
	-requirements of rules for classification and design of ships;								
	- hull structures of seagoing ships, inland waters ships, floating docks, offshore units.								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K6_W08] has knowledge of the principles of sustainable development					[SW1] knowle	Assessment edge	of factual	
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems					[SW1] knowle	Assessment edge	of factual	

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Subject contents	Wave loads on ship structures.						
	Design loads on ship structures.						
	Stresses in ship structures (general, zone and local strength) and criteria of sufficient strength.						
	General information on Polish Register of Shipping Rules for Classification and Design of Ships, Part II, Hull Hull structure of typical sea going cargo ship (double or single bottom, sides, decks, bulkheads, forepeak, afterpeak, ice strengthenings, foundations for engines, superstructures and deckhouses.						
Prerequisites and co-requisites	Knowledge of problems discussed during lectures on: - mathematics for engineers; - techncal drawings; - mechanics; - strength of materials.						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	kolokwium	60.0%	100.0%				
Recommended reading	Basic literature	Robert Taggart(Editor), <i>Ship Design and Construction</i> , The soc. Of Nav. Arch. And Marine Eng., New York,1980.					
		S.Wewiórski, K.Wituszyński, <i>Konstrukcja stalowego kadłuba okrętowego</i> , Wyd. Morskie Gdańsk, 1977.					
		S.Wewiórski, K.Wituszyński, <i>Konstrokrętowego</i> , Wyd. Morskie Gdańsk,	ukcja stalowego kadłuba 1977.				
		S.Wewiórski, K.Wituszyński, Konstrokrętowego, Wyd. Morskie Gdańsk, Polski Rejestr Statków, Publikacja N zmęczeniowej stalowego kadłuba si	1977. Ir 45/P, <i>Analiza wytrzymał</i> ości				
		okrętowego, Wyd. Morskie Gdańsk, Polski Rejestr Statków, Publikacja N	1977. Ir 45/P, <i>Analiza wytrzymałości</i> łatku, Gdańsk, 1988.				
		okrętowego, Wyd. Morskie Gdańsk, Polski Rejestr Statków, Publikacja N zmęczeniowej stalowego kadłuba si D.M.Faltinsen, Sea Loads on Ship a	1977. Ir 45/P, <i>Analiza wytrzymałości</i> łatku, Gdańsk, 1988.				
	Supplementary literature	okrętowego, Wyd. Morskie Gdańsk, Polski Rejestr Statków, Publikacja N zmęczeniowej stalowego kadłuba si D.M.Faltinsen, Sea Loads on Ship a Univ. Press, 1990.	1977. Ir 45/P, <i>Analiza wytrzymałości</i> łatku, Gdańsk, 1988.				
	Supplementary literature eResources addresses	okrętowego, Wyd. Morskie Gdańsk, Polski Rejestr Statków, Publikacja N zmęczeniowej stalowego kadłuba si D.M.Faltinsen, Sea Loads on Ship a Univ. Press, 1990. PRS rules.	1977. Ir 45/P, <i>Analiza wytrzymałości</i> łatku, Gdańsk, 1988.				
Example issues/ example questions/ tasks being completed	eResources addresses	okrętowego, Wyd. Morskie Gdańsk, Polski Rejestr Statków, Publikacja N zmęczeniowej stalowego kadłuba si D.M.Faltinsen, Sea Loads on Ship a Univ. Press, 1990. PRS rules.	1977. Ir 45/P, <i>Analiza wytrzymałości</i> łatku, Gdańsk, 1988. and Offshore Structures, Cambr.				

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