

Subject card

Subject name and code	, PG_00056281								
Field of study	Ocean Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the	at the university		
Year of study	2		Language of instruction			Polish	Polish		
Semester of study	3		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Zakład Mechaniki Ko > Faculty of Mechani	ki Konstrukcji Oceanotechnicznych -> Institute of Ocean Engineering and Ship Technology - hanical Engineering and Ship Technology							
Name and surname	Subject supervisor		dr inż. Krzysz	tof Wołoszyk					
of lecturer (lecturers)	Teachers		dr inż. Krzysz	tof Wołoszyk	_				
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	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		4.0		16.0		50	
Subject objectives	To acknowledge students with: - structures of sea-going ships;								
	- loads acting on ship hulls;								
	- requirements of rules of classification and construction of ships;								
	- stresses in ship hull structures.								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K6_U03] can use computer-aided design, production and operation tools for ocean technology objects and systems		Student knows the computational tools and methods used in analysis of ship structures			[SU3] Assessment of ability to use knowledge gained from the subject			
	[K6_W08] has knowledge of the principles of sustainable development		Student has knowledge regarding impact of environmental conditions on the degradation of ship structures			[SW1] Assessment of factual knowledge			
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		Student has knowledge regarding ship structures			[SW1] Assessment of factual knowledge			

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Subject contents Wave	Wave loads on ship structures.						
Desir	Design loads on ship structures.						
	= 55.5						
Stres	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,						
Gene							
Hull							
	afterpeak, ice strengthenings, foundations for engines, superstructures and deckhouses.						
	Knowledge of problems discussed during lectures on:						
and co-requisites							
- ma¹	- mathematics for engineers;						
- tech	- techncal drawings;						
	J						
- mer	- mechanics;						
- stre	- strength of materials.						
Silve	- suchguror materials.						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria kolo	okwium	60.0%	100.0%				
Recommended reading Basic	Basic literature Robert Taggart(Editor), Ship Design and Construction, The s						
		Nav. Arch. And Marine Eng., New York,1980.					
		S.Wewiórski, K.Wituszyński, Konstrukcja stalowego kadłuba					
		okrętowego, Wyd. Morskie Gdańsk, 1977.					
		Polski Rejestr Statków, Publikacja Nr 45/P, <i>Analiza wytrzymałości zmęczeniowej stalowego kadłuba statku</i> , Gdańsk, 1988. D.M.Faltinsen, <i>Sea Loads on Ship and Offshore Structures</i> , Cambr. Univ. Press, 1990. PRS rules.					
	plementary literature	internet					
eRes	sources addresses	Adresy na platformie eNauczanie:					
eRes Example issues/ Ship	sources addresses class concept. Characteristic d		stribution of loads on hulls of sea-				
eRes Example issues/ Ship	sources addresses	Adresy na platformie eNauczanie:	stribution of loads on hulls of sea-				

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