

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 de	elivery		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 Konstrukcji Oceanotechnicznych -> Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology							Technology -	
Name and surname	Subject supervisor	dr inż. Krzysztof Wołoszyk							
of lecturer (lecturers)	Teachers		dr inż. Krzysz	tof Wołoszyk	_				
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	et	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 loads on ship structures						
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	Knowledge of problems discussed during lectures on:						
and co-requisites							
	- mathematics for engineers; - technical 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), Ship Design and Construction, The soc. Of						
		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, Analiza wytrzymałości zmęczeniowej stalowego kadłuba statku, Gdańsk, 1988. D.M.Faltinsen, Sea Loads on Ship and Offshore Structures, Cambr.					
	Univ. Press, 1990.						
	PRS rules.						
	Supplementary literature internet						
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/	Ship class concept. Characteristic division of hulls of sea-going ships. Distribution of loads on hulls of sea-						
	going ships.						
example questions/	James and a second						
tasks being completed Work placement	Not applicable						

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