

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00056299								
Field of study	Ocean Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language	of instructio	n	Polish			
Semester of study	6		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Zakład Mechaniki Konstrukcji Oceanotechnicznych -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Krzysztof Wołoszyk						
	Teachers mgr inż. Leszek Samson								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial Laboratory Pro		Projec	ect Seminar		SUM	
	Number of study hours	0.0	0.0	15.0	30.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		5.0		25.0		75	
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K6_W06] has an organized knowledge on engineering methods and design tools allowing the conducting of projects within the construction and operation of ocean technology objects and systems		Student is able to use the knowledge regarging ship structures in order to optimally deisgn the part of ship hull structure			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		Student fluently uses the typical terminology related to ship structural deisgn			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
	[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		Student is able to apply structural changes, to ensure the safety of the designed structure			[SK5] Assessment of ability to solve problems that arise in practice			
	[K6_U06] in compliance with a formulated specification and with the aid of appropriate tools and methods, is able to complete a simple engineering task within the range of design, construction and operation of ocean technology objects and systems		Student can perform the calculations for verification of the structural strength of the ship hull based on the requirements of Classification Societies.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			

Subject contents	Strength calculations are to be performed to analyse strength of ship hull structure initially designed in the previous semester (semester V). Dimensions of the structure elements are to be corrected, if necessary. Calculations concern general and zone strength of the structure and buckling check of structural elements are to be performed. Requirements of Polish Register of Ships Rules for Classification and Construction of Sea-going Ships, Part II - Hull are to be applied.						
Prerequisites and co-requisites	Student should have some knowledge on theory of ships, technical mechanics, design materials and technical drawing. Lectures on ship hull construction and project elaborated in the previous semester should be completed.						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Project presenatation	50.0%	20.0%				
	Report from calculations performed is assessed	50.0%	80.0%				
Recommended reading	Basic literature	 As above (in polish language). Robert Taggart(Editor), <i>Ship Design and Construction</i>, The soc. Of Nav. Arch. And Marine Eng., New York, 1980. D.J. Eyres: Ship construction. Elsevier, 5ed. Polski Rejestr Statków, Rules for classification and building of sea- going ships, Part II - Hull, 2014. 					
	Supplementary literature	1. IACS, Common Structural Rules for Bulk Carriers, 2006.					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Calculations of general and zone strength of the structure and buckling check of structural elements are to be performed. Requirements of Polish Register of Ships Rules for Classification and Construction of Sea- going Ships, Part II - Hull are to be applied.						
	Not applicable						

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