

## SDAŃSK UNIVERSITY 的 OF TECHNOLOGY

## Subject card

Subject name and code	Ship Structure 2, PG_00045051								
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						
Mode of study			Mode of delivery			at the university			
Year of study			Language of instruction			Polish			
Semester of study	4		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Theory and Ship Design -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Tomasz Mikulski						
	Teachers	dr inż. Marian Bogdaniuk							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	15.0	0.0	0.0		0.0	45	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
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	45		5.0		25.0		75	
Subject objectives	To give students basic information related to design os fast crafts hulls, design of off-shore objects, design of ship cranes foundations, hatch covers, hulls of yachts and requirements of IACS Common structural Rules for Bulk carriers and Oil Tankers.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
			known methods of structure			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
[K6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of ocean technology objects and systems		The student is able to define the structural system of a given object and indicate the main and secondary load-bearing elements of the structure.			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject				

Subject contents	Eleating docks		1						
Subject contents	Floating docks.								
	Hulls of fast vessels.								
	Self-elevating and semi-submersible platforms. Foundations of ship cranes.								
	Hatch covers. Stern and bow doors of Ro-Ro ships. Hulls of yachts.								
	Common Structural IACS Rules fo	r bulk carriers and tankers							
	Common Structural IACS Rules for bulk carriers and tankers.								
Prerequisites	Student should have basic knowledge on theory of ships, technical mechanics, design materials, technical								
and co-requisites	- · ·	drawings and lectures on ship structures from semesters III and IV.							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade						
	test (in written form) Basic literature	60.0%	100.0%						
Recommended reading	Basic literature	As above (in Polish) and:.							
	1. Polski Rejestr Statków, Rules for Classification and Construction of								
	Sea-going Ships,,Part.II Hull, Gdańsk, 2011.								
	2. Polski Rejestr Statków, Rules for Classification and <i>Construction of Sea-going Ships,,Part.III Hull Equipment,</i> Gdańsk, 2007.								
		3. Polski Rejestr Statków, Rules for Classification and Construction of Yachts.							
		assification of Mohile Offshore Linits							
	4. Det Norske Veritas, <i>Rulet for Classification of Mobile Offshore Unit</i>								
	5. IACS, Common Structural Rules for Bulk Carriers, 2006.								
		6. IACS, Common Structural Rules for Bulk Tankers, 2006.							
	Supplementary literature	1. Det Norske Veritas, Rulet for Cla S.Wewiórski, Wyposażenie kadłub	assification of Mobile Offshore Units. a okretowego, Wydawnictwo						
		Morskie, Gdańsk, 1971.							
		2. S.Wewiórski, <i>Wyposażenie kadłuba okrętowego</i> , Wydawnictwo Morskie, Gdańsk, 1971.							
		3. IACS, Common Structural Rules for Bulk Carriers and Oil Tankers, 2014.							
	eResources addresses								

Example issues/ example questions/ tasks being completed	Present a typical structure:
	- hull of a fast craft;
	- foundation of a ship crane;
	- hatch cover; - steel hull of a yacht;
	- hull and legs of a self-elevating unit.
Work placement	Not applicable