

关。GDAŃSK UNIVERSITY 多 OF TECHNOLOGY

Subject card

Subject name and code	Ship Structure 1, PG_00045029								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022			
Education level	first-cycle studies		Subject group						
Mode of study			Mode of de	elivery		at the university			
Year of study	2		Language	of instructio	n	Polish	Polish		
Semester of study	3		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Ocean En Technology								
Name and surname	Subject supervisor		dr inż. Marian Bogdaniuk						
of lecturer (lecturers)	Teachers dr inż. Marian Bogdaniuk								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory Project Se		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								
	Adresy na platformie eNauczanie: Konstrukcja Okrętu_I - Moodle ID: 17970 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17970								
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		2.0		18.0		50	
Subject objectives	To give students basic information on: - International Conventions related to exploitation of ships and Rules of Classification Societies, - strength of ship hulls, - ship steel hull structures.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
			of International Conventions			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
			Student understands influence of criteria used at designing of ship hull structure on amount of material required to build ship hull reducing and on risk of loosing watertightness of ship hull or sinking of a ship.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			

Subject contents	International Conventions and Classification Rules.							
Subject contents								
	Arrangement of basic types of sea-going ships hulls.							
	The angement of basic types of sea-yoing ships huns.							
	Strength of ship hull structures. Design of basic regions of sea-going ships hulls (bottom, sides, decks, bulkheads, end parts, foundations for main engines and auxiliary machines, ice strengthenings, superstructures and deckhouses)							
Droroquioitoo	Student should have some knowledge on theory of shins, technical mechanics, design materials and							
Prerequisites and co-requisites	Student should have some knowledge on theory of ships, technical mechanics, design materials and technical drawings.							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	Test (answers to 10 - 20 questions, written)	50.0%	100.0%					
December ded reading	Basic literature	1 M Pagdaniuk Lasturas an Shin Construction (in nalish)						
Recommended reading		1 M.Bogdaniuk, Lectures on Ship Construction (in polish).						
	2. Robert Taggart(Editor), Ship Design and Construction, The soc.							
	Nav. Arch. And Marine Eng., New York, 1980.							
		for classification and building of sea-						
		going ships, Part II Hull, Gdańsk, 2021.						
	Supplementary literature	1 S Mouriórski K Mituszuński K	A O Maniferski K Miture of ski Konstrukcje stalavnog kontucka					
	Supplementary literature 1.S.Wewiórski, K.Wituszyński, Konstrukcja stalowego kadłuba okrętowego, Wyd. Morskie Gdańsk, 1977 (in polish only).							
		2 D.J. Eyres: Ship construction. Elsevier, 5ed.						
	eResources addresses	eResources addresses Konstrukcja Okrętu_I - Moodle ID: 17970						
	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17970							
Example issues/	Give some information on influence of an international convention on ship hull arrangement and structure.							
example questions/ tasks being completed								
lasks being completed	Role and scope of classification societies activities							
	Role and scope of classification societies activities.							
	Describe problem of global, zone or local strength of ship hull structures.							
	Make some sketches showing a part of ship hull structure.							
Work placement	Not applicable							