

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	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship 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		Seminar	SUM		
of instruction	Number of study hours	30.0	0.0	0.0	0.0		0.0	30	
	E-learning hours inclu	ıded: 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.							S,	
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	knowledge on design, construction and operation of ocean technology objects and systems		Student knows basic requirements of International Conventions related to ship exploitation and requirements of Classification Societies Rules. Student understands problem of strength of ship hull structures(predicting stress values, buckling and fatigue strength analysis. Student is able to make sketches showing typical arrangements of ship hull structures.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
	development		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			

Data wydruku: 09.04.2024 19:39 Strona 1 z 2

Cubicat contact	International Conventions and Classification Dules						
Subject contents	International Conventions and Classification Rules.						
	Arrangement of basic types of sea-going ships hulls.						
	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)						
Droroguioitoo	Student should have some knowledge on theory of shine, technical mechanics, design meterials 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	50.0%	100.0%				
	questions, written)						
Recommended reading	Basic literature	1 M.Bogdaniuk, Lectures on Shi	p Construction (in polish).				
	2. Robert Taggart(Editor), Ship Design and Construction, The						
		Nav. Arch. And Marine Eng., Ne	Nav. Arch. And Marine Eng., New York,1980.				
		3. Polski Rejestr Statków, Rules for classification and building of seagoing ships, Part II Hull, Gdańsk, 2021.					
	Supplementary literature	1.S.Wewiórski, K.Wituszyński, K	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 Konstrukcja Okrętu_I - Moodle ID: 17970						
Evernle issues/	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17970						
Example issues/ example questions/	Give some information on influence of an international convention on ship hull arrangement and structure.						
tasks being completed							
Ŭ I	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.						
VA/ 1 1	Not applicable	Not applicable					
Work placement	Not applicable						

Data wydruku: 09.04.2024 19:39 Strona 2 z 2