

## GDAŃSK UNIVERSITY

## Subject card

Subject name and code	Project 3, PG_00041784									
Field of study	Ocean Engineering									
Date of commencement of studies	October 2020		Academic year of realisation of subject			2023/2024				
Education level	first-cycle studies		Subject group							
Mode of study	Full-time studies		Mode of delivery			at the university				
Year of study	4		Language of instruction			Polish				
Semester of study	7		ECTS credits			3.0				
Learning profile	general academic profile		Assessment form			assessment				
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology						nd Ship			
Name and surname	Subject supervisor		dr inż. Krzysz	tof Wołoszyk						
of lecturer (lecturers)	Teachers		dr inż. Krzysztof Wołoszyk							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM		
of instruction	Number of study hours	0.0	0.0	0.0	30.0		0.0	30		
	E-learning hours included: 0.0									
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM		
	Number of study hours	30		5.0		40.0		75		
Learning outcomes	conducted based on		1				Method of ve	arification		
Learning outcomes	Course outcome [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		Subject outcome Student is able to propose configuration and arrangement of basic elements forming a ship hull structure and find their scantlings that fulfill the criteria of strength.			Method of verification [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information				
	[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 knows structures of typical floating objects and			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge				
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		Student understands influence of requirements concerning ship's stability, ability to float in flooded conditions, properties of ship propulsion system, sea keeping properties and characteristics of materials used – on ship hull structure. Student knows basic 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.			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge				

Subject contents Prerequisites and co-requisites	Lecturer shows reasonable arrangement of basic structural elements of a similar structure, performs some computations to obtain required dimensions of the elements and their welded connections. Students may discuss with lecturer any technical problems related to their designed structure. Student should have knowledge on ship hull structures collected at lectures in semesters III and IV.						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	assessment of the design exercise	50.0%	100.0%				
Recommended reading	Basic literature	<ol> <li>M.Bogdaniuk, Lectures on ship hull structures.</li> <li>Polski Rejestr Statków, Rules for classification and construction of sea-going ships, Part II - Hull, 2019.</li> </ol>					
	Supplementary literature	1S.Wewiórski, K.Wituszyński, <i>Konstrukcja stalowego kadłuba okrętowego</i> , Wyd. Morskie Gdańsk, 1977(in polish).					
	eResources addresses	Adresy na platformie eNauczanie: Praca projektowa II, P, Oce, Sem. 05, zimowy 23/24 (PG_00055297) - Moodle ID: 27733 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27733					
Example issues/ example questions/ tasks being completed	Determine the thickness of outer bottom plating based on the local strength criteria and rules of classifi societies.						
	Determine the dimensions of upper deck stiffener based on the local strength criteria and rules of classification societies.						
Work placement	Not applicable						