

## Subject card

Subject name and code	Project, PG_00041774								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of	October 2020	T			0004/0000				
studies	October 2020		Academic year of realisation of subject			2021/2022			
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
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			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Theory	ign -> Faculty of Mechanical Enginee			ering and Ship Technology				
Name and surname	Subject supervisor	dr inż. Cezary Żrodowski							
of lecturer (lecturers)			dr inż. Cezary Żrodowski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	30.0		0.0	30	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:  Praca projektowa 1 - 2021 - Moodle ID: 20441  https://enauczanie.pg.edu.pl/moodle/course/view.php?id=20441								
Learning activity and number of study hours	Learning activity	g activity Participation in classes including plan				Self-st	udy	SUM	
	Number of study hours	30		5.0		40.0		75	
Subject objectives	Introduction to ship design theory, presentation of ship design process, basic tools and professional vocabulary.								
Learning outcomes	Course outcome Subject outcome Method of verificat					rification			
	[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		The student independently formulates conclusions regarding the designed ship and explains their origin.			[SW3] Assessment of knowledge contained in written work and projects			
	range of design, construction and operation of ocean technology objects and systems		The student performs a simplified conceptual design of the multipurpose dry cargo ship, including: a) parametric model b) hull shape (lines) c) compartments d) freeboard e) tonnage f) estimation of stability g) a simplified general arrangement			[SU1] Assessment of task fulfilment			
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		The student can prepare a technical report in accordance with the formal and technical requirements, including a simplified initial design of the ship			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Rules for design calculations: measurement units, mathematical models, presentation and explanation of calculation results. Physical phenomena, theoretical and empirical design relationships. Functional and safety criteria. Buoyancy equation. Calculation of main design parameters on example of multipurpose dry cargo ship. Compartmentation. Calculation of buoyancy, stability and register tonnage.								

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Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Lecture exam	100.0%	50.0%				
	Project	60.0%	50.0%				
Recommended reading	Basic literature	Buczkowski L.: Podstaw Budownictwa Okrętowego, I, II, III tom, skrypt Politechniki Gdańskiej.					
		2. Milewski J.: Projektowanie i budowa jachtów żaglowych. Gdynia 1998.					
		3. Staszewski J., Paczesniak J.: Projektowanie Okretów, I, II, III tom, skrypt Politechniki Gdańskiej.					
		4. Marchaj C.A.: Teoria żeglowania, aerodynamika żagla. Almaress. 2001.					
		<ol> <li>Michalski J.P.: Podstawy teorii projektowania okrętów.</li> <li>Wydawnictwo PG, 2013</li> </ol>					
	Supplementary literature	Watson D.: Practical ship design , Amsterdam, Elsevier, 1998.					
		2. Schneekluth H.: Ship design for efficiency and economy, London,Butterworths, 1987.					
		3. Piskorz-Nałecki J.: Projektowanie statków morskich. Szczecin, Wyd. PS, 1982.					
		4. Semenov I., Sanecka K.: Teoria projektowania statków, Szczecin, Wyd. PS, 2001.					
		5. Nogid L.M: Teoria projektowania okretu, Gdynia Wydawnictwo Morskie, 1962.					
	eResources addresses	Praca projektowa 1 - 2021 - Moodle ID: 20441 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=20441					
Example issues/ example questions/ tasks being completed	Project of multipurpose dry cargo	Project of multipurpose dry cargo vessel.					
Work placement	Not applicable						

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