

Subject card

Subject name and code	, PG_00056282								
Field of study	Ocean Engineering								
Date of commencement of studies	October 2022		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	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Theory and Ship Design -> Faculty of Mechanical Engineering and Ship Technology						nology		
Name and surname	Subject supervisor	dr inż. Cezary Żrodowski							
of lecturer (lecturers)	Teachers		dr inż. Cezary Żrodowski						
			dr inż. Tomasz Hinz						
	G. H.Z. TOTHQSZ THEZ								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	30.0		0.0	45	
	E-learning hours included: 0.0								
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14448								
	Additional information: The lecture can be provided in remote mode in case of necessity.								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study		SUM		
	Number of study hours	45		6.0		49.0		100	
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 verification			
	[K6_W08] has knowledge of the principles of sustainable development		The student chooses technical solutions supporting sustainable development.			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_U03] can use computer-aided design, production and operation tools for ocean technology objects and systems		General Plan of the designed vessel.			[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment			
	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.								
Prerequisites and co-requisites	Completed course "Basics of ship design"								
Assessment methods	ds Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	Project report		80.0%			100.0%			

Data wygenerowania: 14.04.2025 11:41 Strona 1 z 2

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.					
		Staszewski J., Paczesniak J.: Projektowanie Okretów, I, II, III tom, skrypt Politechniki Gdańskiej.					
		4. Marchaj C.A.: Teoria żeglowania, aerodynamika żagla. Almaress. 2001.					
		Michalski J.P.: Podstawy teorii projektowania okrętów. Wydawnictwo PG, 2013					
	Supplementary literature	Watson D.: Practical ship design , Amsterdam, Elsevier, 1998.					
		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	Adresy na platformie eNauczanie: Projektowanie okrętu I, W, P, Budowa okrętów, sem.03, zimowy 23/24 - Moodle ID: 32542 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=32542					
Example issues/ example questions/ tasks being completed	Project of multipurpose dry cargo vessel.						
Work placement	Not applicable						

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Data wygenerowania: 14.04.2025 11:41 Strona 2 z 2