

Subject card

Subject name and code	, PG_00041853								
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			Optional subject group Subject group related to scientific research in the field of study			
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Theory	Department of Theory and Ship Design -> Faculty of Mechanical Engineering and Ship Technology						ology	
Name and surname	Subject supervisor		dr inż. Cezary Żrodowski						
of lecturer (lecturers)	Teachers		dr inż. Cezary Żrodowski						
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	20.0		0.0	20	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in stud plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	study 20		5.0		50.0		75	
Subject objectives	Introduction to ship design theory, presentation of ship design process, basic tools and professional vocabulary.								
Learning outcomes	Course out	come	Subject outcome Method of verification					rification	
	[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			
			The student independently formulates conclusions regarding the designed ship and explains their origin.			[SW3] Assessment of knowledge contained in written work and projects			
	[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					[SU1] Assessment of task fulfilment			
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			·						

Data wydruku: 17.04.2024 05:00 Strona 1 z 2

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Project report	80.0%	100.0%				
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.					
		5. Michalski J.P.: Podstawy teorii projektowania okrętów. Wydawnictwo PG, 2013					
	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						
Example issues/ example questions/ tasks being completed	Project of multipurpose dry cargo vessel.						
Work placement	Not applicable						

Data wydruku: 17.04.2024 05:00 Strona 2 z 2