

Subject card

Cubic of manner and code	Selected issues of Shin Designing, PG, 00045084								
Subject name and code	Selected issues of Ship Designing, PG_00045084 Ocean Engineering, Ocean Engineering								
Field of study	October 2020				2022/2022				
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Theory	ign -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname	Subject supervisor		dr inż. Maciej Reichel						
of lecturer (lecturers)	Teachers		dr inż. Maciej Reichel						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Tutorial Laboratory Project		t	Seminar	SUM	
	Number of study hours	30.0	0.0	0.0	0.0		0.0	30	
	E-learning hours inclu	uded: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation i consultation h		Self-study		SUM	
	Number of study hours	30		3.0		17.0		50	
Subject objectives	To acquaint students with of ship power plants specialization with selected problems in the field of creating the initial ship design based on the design requirments set by the shipowner.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W08] has knowledge of the principles of sustainable development					[SW1] Assessment of factual knowledge			
	[K6_W06] has an org knowledge on engine methods and design the conducting of pro the construction and ocean technology ob- systems				[SW1] Assessment of factual knowledge				
Subject contents	Main design parameters of the ship - nomenclature and defining terms; Design spiral; Presentation of classic sets of design assumptions; functional types of ships; The issue of determining the values of the design parameters of the propulsion system of a transport vessel: Preliminary design methodology - "Naval Architecture Approach"; Initial design methodology - "Marine Engineering Approach"; The issue of ship stability safety assessment; Modeling of ship stability: Stability of the ship in an intact hull; Initial stability; static stability; dynamic stability; Stability standardization (documents, regulations, requirements); Stability of the ship in the damaged hull condition; a deterministic or probabilistic approach; Stability standardization.								
Prerequisites and co-requisites	In the initial semesters, the student completed the knowledge of the basics of ship design.								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	Written credit 100%		60.0%		100.0%				
Recommended reading	Basic literature	Jan P. Michalski, Fundamentals of ship design theory; Gdańsk University of Technology Publishing House; Gdansk 2013.							

Data wydruku: 25.04.2024 09:22 Strona 1 z 2

	Supplementary literature	Discussed during classes with students.				
	eResources addresses	Podstawowe http://Internet - Book item - textbook.				
		Uzupełniające				
		Adresy na platformie eNauczanie:				
		Wybrane zagadnienia projektowania okrętu 2022/2023 - Moodle ID: 26886 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26886				
Example issues/ example questions/ tasks being completed	For the given values of the drive system parameters, estimate the efficiency of the propeller using the graphs of B. Wageningen.					
Work placement	Not applicable					

Data wydruku: 25.04.2024 09:22 Strona 2 z 2