

Subject card

Subject name and code	, PG_00056309							
Field of study	Ocean Engineering							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025		
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 and Ship Design -> Faculty of Mechanical Engineering and					d Ship Techn	ology	
Name and surname	Subject supervisor	dr inż. Maciej Reichel						
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project S		Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0		0.0	30
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	earning activity Participation in classes includ plan		Participation in consultation hours		Self-study		SUM
	Number of study hours			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 organized knowledge on engineering methods and design tools allowing the conducting of projects within the construction and operation of ocean technology objects and systems		Acquiring knowledge about the methods of determining some design parameters of ships at the initial stages of design.			[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 steering-propulsion system of a transport vessel: Manoeuvring safety of ships.							
Prerequisites and co-requisites	In the initial semesters, the student completed the knowledge of the basics of ship design.							
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade			
and criteria	Written credit 100%		60.0%			100.0%	6	
Recommended reading	Basic literature Jan P. Michalski, Fundamentals of ship design theory; Gdańsk University of Technology Publishing House; Gdansk 2013.							
	Supplementary literature		Discussed during classes with students.					
	eResources addresse	Adresy na platformie eNauczanie:						
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.							

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Work placement	Not applicable

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