

## Subject card

Subject name and code	, PG_00056297								
Field of study	Ocean Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024			
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	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Damian Bocheński						
	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		3.0		17.0		50	
Subject objectives	To acquaint students with the technical, economic and ecological aspects of the selection and operation of a ship's propulsion								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[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 is able to assess the efficiency of various ship propulsion systems.			[SW1] Assessment of factual knowledge			
	[K6_U05] can formulate a simple engineering task and its specification within the range of		The student is able to find the relationship between efficiency and economy of the drive. He can determine the influence of the type of propulsion on ecological threats.			[SU1] Assessment of task fulfilment			
	[K6_W08] has knowledge of the principles of sustainable development		The student has structured knowledge related to the design of ship propulsion systems			[SW1] Assessment of factual knowledge			
Subject contents	Technical requirements for ship propulsion, selection of propulsion system for various types of transport ships. Analysis of the selection of the ship's propulsion and energy system, taking into account the influence of economic criteria (investment and operating costs). Impact of the type of ship propulsion on environmental pollution.								
Prerequisites and co-requisites									
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	Test	60.0%			100.0%				

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Recommended reading	Basic literature	1. Balcerski A.: Siłownie okrętowe. Wyd. PG 1990					
		2. Urbański P.: Gospodarka energetyczna na statkach, Wyd. Morskie 1978					
		Woud H. K., Stapersma D.: Design of propulsion and electric power generation systems. IMarEST, London 2002					
		4. Kosowski K, Ship Turbine Power Plans, Wyd. PG Delft University, Gdańsk 2004					
	Supplementary literature	Dr.C.B.Barrass: Ship_Design_and_Performance_for_Masters_and_Mate Elsevier					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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