

Subject card

Subject name and code	, PG_00056297							
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	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						d Ship	
Name and surname	Subject supervisor		dr hab. inż. Damian Bocheński					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0		30
	E-learning hours inclu							-
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study SUM		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_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		
	[K6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of ocean technology objects and systems		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_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		
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.							
	of economic criteria (i	investment and	operating cos	ts). Impact of the	ne type	or snip	propulsion or	i environmentai
Prerequisites and co-requisites	of economic criteria (i	investment and	operating cos	ts). Impact of th	ne type	or snip	propulsion or	renvironmentar
	of economic criteria (i			ts). Impact of the	ne type		propulsion or	

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Recommended reading	Basic literature	1. Balcerski A.: Siłownie okrętowe. Wyd. PG 1990					
		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					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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