

Subject card

Subject name and code	, PG_00056319								
Field of study	Ocean Engineering								
Date of commencement of									
studies	October 2021		Academic year of realisation of subject			2023/	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	5		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Faculty of Ocean Engineering and Ship Technology								
Name and surname	Subject supervisor	zura	ıra						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec			SUM	
	Number of study hours	30.0	0.0	15.0	0.0	0.0		45	
	E-learning hours inclu	uded: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan			Participation in consultation hours		tudy	SUM	
	Number of study hours	45		5.0	5.0			75	
Subject objectives	Learn the basic principles of using and operating marine engine systems								
Learning outcomes	Course out	Subject outcome			Method of verification				
	specification within the range of		Applies knowledge of the basics of operation to the practical use and supervision of machinery and equipment in the ship's power plant in various operating states			[SU3] Assessment of ability to use knowledge gained from the subject			
	[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		Explains the basic concepts of the use and maintenance of marine equipment and energy systems			[SW3] Assessment of knowledge contained in written work and projects			
	knowledge on design, construction		The operation process of machinery and equipment in a ship's engine room is known			[SW2] Assessment of knowledge contained in presentation			
Subject contents	Lecture: The use of ship equipment and energy systems (main propulsion, generating sets and boilers). Servicing of ship devices and energy systems (main propulsion, generating sets and boilers). Operational susceptibility of ship devices. Mathematical models of ship equipment operation processes. Controlling the operation process of ship devices. Basics of logistics in the operation of power plants and ship devices. Management of the operation of marine power plants. Operation of reloading equipment. Laboratory: Measurement of physical properties of working media (density, viscosity, flash point). Measurement of lubricating properties of lubricating oils. Preparation for operation, start-up, supervision during operation, stopping the piston internal combustion engine, gas turbine set, fired boiler, fuel centrifuges, reciprocating compressor								
Prerequisites and co-requisites	·								
Assessment methods	Subject passin	Pass	Passing threshold			Percentage of the final grade			
and criteria	Test	50.0%			100.0%				

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Recommended reading	Basic literature	Dr C.B.Barrass: Ship Design and Performance for Masters and Mates. 2004 Elsevier				
		Niziński S.: Eksploatacja obiektów technicznych, Biblioteka problemów eksploatacji, Radom 2002 r.				
		Włodarski J.K.: Podstawy eksploatacji maszyn okrętowych, Akademia Morska, Gdynia 2006 r.				
	Supplementary literature	Biernat J., Girtler J: Techniczna eksploatacja okrętów. Skrypt WSMW, Gdynia 1983 r.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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