

Subject card

	DO 00050007								
Subject name and code	, PG_00058967								
Field of study	Ocean Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group						
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Zakład Siłowni Okrętowych -> Institute of Ocean Engineering and Ship Technology -> Faculty of M Engineering and Ship Technology					of Mechanical			
Name and surname	Subject supervisor		dr inż. Piotr Bzura						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	18.0		0.0	18	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	18		0.0		0.0		18	
Subject objectives	Familiarizing students with the arrangement, assembly and propagation of vibrations and noises of the main drive system components								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_U06] when forming and solving design tasks can see their non-technical aspects, including environmental, economical and legal ones. Applies HSE rules and regulations		The student knows the requirements for the assembly of the main propulsion system machines			[SU2] Assessment of ability to analyse information			
	[K7_W07] has knowledge on the development perspectives of ocean technology objects and systems, knows the newest and most relevant achievements in ocean technology		The student knows the structure and principle of the marine elements of the main propulsion system			[SW2] Assessment of knowledge contained in presentation			
	[K7_W06] has an organized, widened knowledge on engineering methods and design tools allowing the conducting of advanced projects within the construction and operation of ocean technology objects and systems		The student knows the possibilities of preventing the spread of vibrations and noises			[SW2] Assessment of knowledge contained in presentation			
Subject contents	1 General information on marine propeller shafts 2. Influence of the hull deflections on the work of the main propulsion system components 3. Assembly of the shaft line 4. Properties of shaft lines with various propellers 5. Bearings of drive shafts 6. Assembly of main machines 7. Preventing the propagation of vibrations and noise								
Prerequisites and co-requisites									
Assessment methods	, , ,		Passing threshold			Percentage of the final grade			
and criteria			50.0%			100.0%			

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Recommended reading	Basic literature	Jerzy Derfer: Ship equipment technology				
		Konstanty Cudny: Shaft lines				
		Leszek Piaseczny: Technologies for the repair of marine internal combustion engines				
		Władysław Wojnowski: Ship diesel power plants				
	Supplementary literature	Władysław Wojnowski: Preventing the spread of vibrations and noise in ship power plants				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Natural and forced vibrations - basic	excitations in ship conditions.				
Work placement	Not applicable					

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