

Subject card

Subject name and code	, PG_00058889							
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	Full-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 Okręto Engineering and Ship	tte of Ocean Engineering and Ship Technology -> Faculty of Mechanical						
Name and surname	Subject supervisor		dr inż. Piotr Bzura					
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	0.0	0.0	0.0	30.0		0.0	30
	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		30		0.0		0.0		30
Subject objectives	To acquaint students with the distribution, assembly and propagation of vibrations and noise of the main drive system components							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[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 construction and principle of operation of the marine components of the main propulsion system			[SW2] Assessment of knowledge contained in presentation		
	[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 possibilities of preventing the spread of vibrations and noise			[SU2] Assessment of ability to analyse information		
	[K7_W05] has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems		The student knows the requirements for the assembly the main drive system machines			[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	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Credit	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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