

关。GDAŃSK UNIVERSITY 创 OF TECHNOLOGY

Subject card

Subject name and code	Ship Motion Mechanics 2, PG_00051269								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
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	Zakład Hydromechaniki i Hydroakustyki Okrętu -> Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology						chnology ->		
Name and surname	Subject supervisor		dr inż. Michał Krężelewski						
of lecturer (lecturers)	Teachers	dr inż. Michał Krężelewski							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
	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 didactic classes included in study plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30 4.		4.5		15.5		50	
Subject objectives	The student recognizes manoeuvring abilities of modern ships. Knows ship steering devices. Sizing and calculates ship propeller and rudder.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		Designs the propeller and rudder.			[SW3] Assessment of knowledge contained in written work and projects			
	[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		Designs the propeller and rudder.			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_K03] understands non- technical aspects and effects of operation as an engineer, its influence on the environment and is aware of the responsibilities for the decisions taken		Designs the propeller and rudder.			[SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	Hydrodynamic characteristics of a ship propeller. The maneuvering abilities of the ship. Modern steering devices. Selection and calculation of serial propellers and classic rudders.								
Prerequisites and co-requisites	Ship Motion Mechanics I								
Assessment methods	Subject passin	Pass	Passing threshold			Percentage of the final grade			
and criteria	project		100.0%			100.0%	0		

Recommended reading	Basic literature	Dudziak Jan Teoria okrętu, Gdańsk 2008				
		Wełnicki Wiesław Mechanika ruchu okrętu, skrypt PG, Gdańsk 1989				
		Wełnicki Wiesław Sterowność okrętu, PWN Warszawa 1966				
		Molland Anthony The Marine Engeeniring Refarence Book - a Guide to Ship design, construction and operation, Essevier 2008				
		Molland Anthony, Turnock Stephen Marine Rudders and Control Sufraces, Elsevier 2007				
	Supplementary literature	Krężelewski Mieczysław Hydromechanika ogólna i okrętowa cz.II skrypt PG Gdańsk 1982				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					