

Subject card

Subject name and code	Ship Theory 1, PG_00053544								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		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								
Name and surname	Subject supervisor		dr inż. Michał Krężelewski						
of lecturer (lecturers)	Teachers		dr inż. Michał Krężelewski						
			dr inż. Maciej	Maciej Reichel					
		mgr inż. Zbigniew Macikowski							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours inclu	ıded: 0.0							
	Adresy na platformie eNauczanie:								
	Teoria Okrętu I 2021/22 - Moodle ID: 20447 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=20447								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study		SUM		
	Number of study hours	30		0.0		0.0		30	
Subject objectives	knowledge: 1) basic phenomena and issues in the field of swimming mechanics, 2) methods of determination - forecasting hydromechanical properties floating objects.								
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 [K6_W08] has knowledge of the principles of sustainable development		knowledge of: 1) principles of modeling hydromechanical phenomena, 2) essential hydromechanical reactions induced on the flowing body, 3) determining the hydromechanical resistance of a vessel floating on calm water.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
			knowledge of: 1) principles of modeling hydromechanical phenomena, 2) essential hydromechanical reactions induced on the flowing body, 3) determining the hydromechanical resistance of a vessel floating on calm water.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			

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Subject contents	Lecture: equations of motion of floating object; hydromechanical surface reactions; principles of hydromechanical model tests; hydromechanical resistance of the surface vessel on calm water. Laboratory exercises: characteristics of regular water waving, flow around ship shapes, measurement of hydromechanical forces induced on a lifting surface, forecasting of hydromechanical resistance of a surface ship moving on calm water.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	tests	50.0%	100.0%				
Recommended reading	Basic literature Supplementary literature	Dudziak J. ,Teoria okrętu, Gdańsk 2000, Krężelewski M., Hydromechanika okrętu, t.1 Gdańsk 1980. 1. Pr. zb.: Poradnik Okrętowca t.2, Wydawnictwo Morskie, Gdynia 1960. 2. Instrukcje do ćwiczen laboratoryjnych.					
	eResources addresses	3. Staliński J.: Teoria okrętu, Wydawnictwo Morskie, Gdańsk 1969. Teoria Okrętu I 2021/22 - Moodle ID: 20447 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=20447					
Example issues/ example questions/ tasks being completed			· ·				
Work placement	Not applicable						

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