

Subject card

	OUT TI O DO COSTOTAD								
Subject name and code	Ship Theory 2, PG_00053546								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of studies			Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group						
Mode of study	Part-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	Department of Hydromechanics and Hydroacoustics -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor		dr hab. inż. Przemysław Krata						
of lecturer (lecturers)	Teachers		dr inż. Ewelina Ciba						
		dr hab. inż. Przemysław Krata							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	10.0	10.0	10.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		0.0		0.0		30	
Subject objectives	The course aims at outlining the generic background of the hydrostatic calculations typically applicable to ships, yachts and other floating structures. The introduction to ship stability issues is presented in order to provide the very basics for further stability calculations routinely undertaken during a ship design process.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of ocean technology objects and systems		A student is able to identify issues related to the buoyancy and stability of ships and is able to properly outline the area of engineering search for solutions.			[SU1] Assessment of task fulfilment			
			A student has a well structured knowledge of the ship hydrostatics and the basics of stability concept.			[SW1] Assessment of factual knowledge			
	[K6_W03] has a basic knowledge on hydromechanics, thermodynamics, machine construction, ecology, materials science and electronics necessary to understand the construction and operation principles of ocean technology objects and equipment		A student has a basic background allowing for understanding of the hydrostatic curves and the stability booklet.			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	 Basics of the hydrostatic curves determination. Initial stability. Salculation of draft at perpendiculars. Stability for large angle of heel. Righting arm curve and its interpretation. Determination of a static angle of heel. Basics of the dynamical stability of ships. 								
Prerequisites and co-requisites	Background of physics at the secondary school level.								
Assessment methods	Subject passin	Pass	Passing threshold			Percentage of the final grade			
and criteria	Final test	50.0%			100.0%				

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Recommended reading	Basic literature	Rawson K.J., Tupper E. C.,Basic Ship Theory.
		International Code on Intact Stability, 2008 , (2008 IS Code)
	Supplementary literature	Lewis, E. V. (ed): Principles of Naval Architecture.
		Hirdaris, S., Lecture Notes on Basic Naval Architecture, Aalto
		University, 2021.
e	eResources addresses	Podstawowe
		https://www.cdn.imo.org/localresources/en/KnowledgeCentre/ IndexofIMOResolutions/MSCResolutions/MSC.267(85).pdf - International Code on Intact Stability, 2008, (2008 IS Code)
		Uzupełniające
		Adresy na platformie eNauczanie:
		Teoria Okrętu II - hydrostatyka, stateczność zima 2022/2023 - Moodle ID: 27439
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27439
Example issues/		
example questions/		
tasks being completed		
Work placement	Not applicable	

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