

Subject card

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Subject name and code	Hydromechanics of Ship, PG_00046528								
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	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	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology							Ship	
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Michał Krężelewski						
	Teachers		dr inż. Michał Krężelewski						
			dr inż. Ewelina Ciba						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	20.0	0.0	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 include plan		Participation in consultation hours		Self-st	udy	SUM	
	Number of study hours	30		5.0		40.0		75	
Subject objectives		The student recognizes basic problems connected with flows and flows around bodies. Uses the laws and methods of hydromechanics and can apply them to ship and ocean structures.							
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		The student recognizes basic problems connected with flows and flows around bodies. Uses the laws and methods of hydromechanics and can apply them to ship and ocean structures.			[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		The student recognizes basic problems connected with flows and flows around bodies. Uses the laws and methods of hydromechanics and can apply them to ship and ocean structures.			[SW1] Assessment of factual knowledge			
	[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		The student recognizes basic problems connected with flows and flows around bodies. Uses the laws and methods of hydromechanics and can apply them to ship and ocean structures.			[SU1] Assessment of task fulfilment			
Subject contents	Lecture: surface forces. Boundary layer and hydrodynamic wake. The similarity of flows and modeling laws. Ship resistance. Basic field theory. Field operators: gradient, velocity flux, divergence, rotation and circulation of velocity. Basic wing theory: geometrical and hydrodynamic characteristics of foils. Potential flows. Gravity waves. Exercises: numerical examples connected with lectures.								
Prerequisites and co-requisites	Fluid Mechanics								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	exam	60.0%	100.0%		
Recommended reading	Basic literature	Dudziak J. Teoria Okrętu, 2008 Gdańsk Krężelewski M. Hydromechanika ogólna i okrętowa, strypt PG Tom I , II, Gdańsk 1982			
	Supplementary literature	Journee J.M.J. Offshore Hydrodynamics, Delft, 2001			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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