

Subject card

Subject name and code	Motion Mechanics of Yachts 2, PG_00045108								
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	Department of Hydromechanics and Hydroacoustics -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Michał Krężelewski						
	Teachers		dr inż. Michał Krężelewski mgr inż. Hanna Pruszko						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	15.0	0.0		30	
	E-learning hours inclu	ided: 0.0		1				<u> </u>	
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		4.0		16.0		50	
Subject objectives	The student recognizes the maneuvering features of modern ships. Uses the equations of ship maneuvering motion. Distinguishes between types of steering devices. Draws a technical drawing of a propeller. Calculates and designs the 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					[SW3] Assessment of knowledge contained in written work and projects			
	[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					[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	[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					[SW1] knowle	Assessment of	f factual	
	[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						Assessment of ze work	ability to	
Subject contents	The maneuvering abilities of the ship. Maneuvering model tests. Equations of motion of a maneuvering ship. Ship steering devices. Selection and calculations of ship rudders. Sea wave description. Seakeeping predictions.								
Prerequisites and co-requisites	Ship Motion Mechanic	cs I							

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Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
		100.0%	50.0%			
		80.0%	50.0%			
Recommended reading	Basic literature	Marchaj Cz. Teoria żeglowania - hydrodynamika kadłuba, 2010, wydawnictwo: Alma-Press Wełnicki Wiesław MECHANIKA RUCHU OKRĘTU SKRYPT PG, GDAŃSK 1989				
		Wełnicki Wiesław STEROWNOŚĆ OKRĘTU PWN WARSZAWA 1966				
	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					

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