

Subject card

Subject name and code	Ship Motion Mechanics 2, PG_00046549							
Field of study	Ocean Engineering, Ocean Engineering							
Date of commencement of	October 2020	voor of		2022/	2024			
studies			Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies		Subject group					
Mode of study	Part-time studies		Mode of delivery			at the university		
Year of study	4		Language of instruction			Polish		
Semester of study	8		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 of lecturer (lecturers)	Subject supervisor		dr inż. Michał Krężelewski					
	Teachers	dr inż. Michał Krężelewski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory Project		:t	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0 20.0		0.0	20
	E-learning hours inclu	uded: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes included plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	20	4.0		26.0		50	
Subject objectives	The student recogniz shipSteering devicies							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[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		The student recognizes manoeuvring abilities of modern ships. Uses ship motions equations. Knows ship Steering devicies. Draws screw propeller technical drawing. Calculates ship propellers and rudders.			[SW3] Assessment of knowledge contained in written work and projects		
			The student recognizes manoeuvring abilities of modern ships. Uses ship motions equations. Knows ship Steering devicies. Draws screw propeller technical drawing. Calculates ship propellers and rudders.			[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		The student recognizes manoeuvring abilities of modern ships. Uses ship motions equations. Knows ship Steering devicies. Draws screw propeller technical drawing. Calculates ship propellers and rudders.			[SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	Ship manoeuvring abilities. Manoeuvring tests. Ship motion equations. Ship sreering devicies. Selection and calculations of ship propellers rudders.							
Prerequisites and co-requisites	Ship Motion Mechanics I							
Assessment methods	Subject passing criteria Passing threshold			Per	Percentage of the final grade			
and criteria	project		100.0%			100.0%		

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Recommended reading	Basic literature	
		Dudziak Jan TEORIA OKRĘTU WYDAWNICTWO MORSKIE GDAŃSK 1988
		Wełnicki Wiesław MECHANIKA RUCHU OKRĘTU SKRYPT PG GDAŃSK 1989
		Wełnicki Wiesław STEROWNOŚĆ OKRĘTU PWN WARSZAWA 1966
	Supplementary literature	Molland Anthony, Turnock Stephen Marine Rudders and Control Sufraces, Elsevier 2007
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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