

Subject card

Subject name and code	, PG_00056311							
Field of study	Ocean Engineering							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025		
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	5		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Zakład Projektowania Okrętu -> Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology							ty of
Name and surname	Subject supervisor dr hab. inż. Przemysław Krata							
of lecturer (lecturers)	Teachers		,					
Lesson types and methods of instruction	Lesson type	• • • • • • • • • • • • • • • • • • • •		Laboratory Project		t	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0		0.0	30
	E-learning hours included: 0.0							1
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		3.0		17.0		50
Subject objectives	The purpose of the course is to present the fundamentals of buoyancy and stability of a ship primarily in static approach, with selected elements of dynamics.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_W08] has knowledge of the principles of sustainable development					[SW1] Assessment of factual knowledge		
	[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 knows the scope and methods of calculations related to ship hydrostatics and stability.			[SW1] Assessment of factual knowledge		
Subject contents	- Fundamentals of determining hydrostatic curves Initial stability of a ship Stability at large angles of heel Righting arm curve and its interpretation Determination of static heel angle of a ship Fundamentals of dynamic stability of a ship Basics of ship stability assessment.							
Prerequisites and co-requisites	Basic knowledge of physics and engineering mechanics.							
Assessment methods	Subject passin	g criteria	Pass	ing threshold		Per	centage of th	e final grade
and criteria	Final test		50.0%			100.0%		
Recommended reading	Basic literature Derret, Stability for mates and masters (free to download))		
	Supplementary literature Kobyliński L., Kastner S., 2003. Stability and safety of ships, Volume I, Regulation and Operation, Elsevier Ocean Engineering Book Series, volume 9.							
	eResources addresses Adresy na platformie eNauczanie:							
Example issues/ example questions/ tasks being completed	Developing of ship hydrostatic data. Displacement and coordinates of the center of gravity calculations. Determination of the ship's stability characteristics for small and large angles of heel. Determination of small and large static angle of heel of a ship subjected to external heeling moment. Determination of the dynamic angle of heel of the ship.							
Work placement	Not applicable							
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