



Subject card

Subject name and code	, PG_00056291						
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			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						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Artur Karczewski				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0	0.0	30
	E-learning hours included: 0.0						
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		5.0		40.0	75
Subject objectives	The subject is intended to deepen the knowledge of design methods used in the preliminary design of transport ships in terms of stability calculations.						
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 has a structured knowledge of engineering design methods and tools to perform projects in the construction and operation of ocean engineering objects.			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U06] in compliance with a formulated specification and with the aid of appropriate tools and methods, is able to complete a simple engineering task within the range of design, construction and operation of ocean technology objects and systems	Students will be able to carry out stability calculations for a transport vessel.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems	The student has a structured knowledge of ocean engineering systems' design, construction and operation.			[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	<ul style="list-style-type: none">• Statutory load conditions• Intact and damaged stability criteria• Watertight subdivision of the hull• Statuary damage generation• Stability booklet						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Report		100.0%		100.0%		

Recommended reading	Basic literature	Watson D.G.M.: Practical ship design Papanikolaou A.: Methodologies of Preliminary Design Hirdaris, Spyros: Lecture Notes on Basic Naval Architecture
	Supplementary literature	Ruponen, Pekka: Principles of Ship Buoyancy and Stability
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	