



Subject card

Subject name and code	, PG_00056291						
Field of study	Ocean Engineering						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies	Subject group			Optional subject group Subject group related to scientific research in the field of study		
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	dr inż. Tomasz Hinz					
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_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		
	[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.			[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	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		
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%
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: Projektowanie okrętu II, P. Oceanotechnika, sem. 5, zimowy, 2023/24 (PO2_202324) - Moodle ID: 34954 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34954	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		