

GDAŃSK UNIVERSITY

Subject card

Subject name and code	Ship Design II, PG_00060552							
Field of study	Naval Architecture and Offshore Structures							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027		
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	6		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology						d Ship	
Name and surname	Subject supervisor	dr inż. Tomasz Hinz						
of lecturer (lecturers)	Teachers		· · · · · · · · · · · · · · · · · · ·					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	et 📃	Seminar	SUM
of instruction	Number of study hours	15.0	0.0	0.0	45.0		0.0	60
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation i consultation h			tudy	SUM
	Number of study hours	60		6.0		34.0		100
Subject objectives	The aim of the course is to develop design skills and to acquire knowledge in the assessment of intact and damaged ship stability, including introduction to the Second Generation Intact Stability Criteria.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[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					[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 structured knowledge in the design, construction and operation of ocean engineering systems			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U02] can work individually and in a team, communicate through various techniques in professional environment and also record, analyse, and present the results of work, can estimate the time needed to complete a given task		The student is able to prepare a basic stability booklet.			[SU1] Assessment of task fulfilment		
Subject contents	Introduction to stability calculation according to the second-generation regulation. Stability calculation for a ship in damaged condition.							
Prerequisites and co-requisites								

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Report	100.0%	100.0%			
Recommended reading	Basic literature	1) International Convention for the Safety of Life at Sea (SOLAS)				
		2) IMO MSC.1/Circ.1627 Interim Guidelines on the Second generation intact stability criteria. London, December 2020. IMO				
) IMO MSC.1/Circ.1652 Explanatory Notes to the Interim Guidelines n Second generation intact stability criteria. London, 2022.				
		4) NAPA Manual				
	Supplementary literature	Ruponen, Pekka: Principles of Ship Buoyancy and Stability				
	eResources addresses Adresy na platformie eNauczanie:					
Example issues/	Perform and present selected stability calculations.					
example questions/ tasks being completed	Discuss the watertight subdivision of a ship's hull.					
	Generate a set of damages meeting SOLAS regulations.					
Work placement	Not applicable					