

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

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 2025		Academic year of realisation of subject			2027/2028			
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	Zakład Projektowania Mechanical Engineer	ania Okrętu - Brak (istniała Wcześniej) -> Institute Of Naval Architecture -> Faculty Of ieering And Ship Technology -> Wydziały Politechniki Gdańskiej					aculty Of		
Name and surname	Subject supervisor		dr inż. Tomasz Hinz						
of lecturer (lecturers)	Teachers		 						
Lesson types and methods of instruction	Lesson type Number of study	Lecture 15.0	Tutorial 0.0	Laboratory 0.0	Projec 45.0	t	Seminar 0.0	SUM 60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic ed in study	Participation in consultation hours		Self-study		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 damaged ship stability.								
Learning outcomes	Course out	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		Students can carry out basic stability calculations.			[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 the ship's damage stability to the extent necessary for its design			[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 intact and damage stability booklet.			[SU1] Assessment of task fulfilment			
Subject contents	 The concept of ship damage stability and subdivision. Measures of ship damage stability and applied calculation techniques. Deterministic assessment of ship damage stability. Probabilistic assessment of ship damage stability. Modeling of ship hull with spatial subdivision in NAPA software. Calculations of damage stability in NAPA. 								
Prerequisites and co-requisites	Sound mastery of knowledge of ship hydrostatics and intact ship stability.								

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Report	50.0%	100.0%			
Recommended reading	Basic literature	1) International Convention for the Safety of Life at Sea (SOLAS)				
		2) International Convention for the Prevention of Pollution from Ships (MARPOL)				
		3) International Convention on Load Lines				
		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					

Document generated electronically. Does not require a seal or signature.