

Subject card

Subject name and code	Fundamentals of Shipbuilding, PG_00060464								
Field of study	Mechanical and Naval Engineering								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
						Subject group related to scientific research in the field of study			
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Institute Of Naval Architecture -> Faculty Of Mechanical Engineering And Ship Technology -> Wydziały Politechniki Gdańskiej						Vydziały		
Name and surname	Subject supervisor		dr inż. Jakub Kowalski						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	27.0	9.0	9.0	0.0		0.0	45	
	E-learning hours inclu			i				i	
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	of study 45		6.0		49.0		100	
Subject objectives	The purpose of the course is to familiarize you with the basic technological processes in the construction of metal hulls.								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K6_W13] has an organized knowledge on design, construction and operation of ocean technology objects and systems		The student knows and distinguishes the basic processes in hull construction			[SW1] Assessment of factual knowledge			
	[K6_W14] 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 is able to select an engineering method and tool for the task at hand			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_U13] 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		The student is able to make a basic analysis of the metal hull structure in terms of its construction technology			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information			
	[K6_U11] can use computer-aided design, production and operation tools for ocean technology objects and systems		The student is able to use engineering tools to complete the task			[SU1] Assessment of task fulfilment			
Subject contents	Lecture: Introduction - basic issues in the field of hull construction technology, including the properties of basic construction materials (steel and aluminum alloys), supplementing knowledge in the field of their connection. Stages of ship hull production: production preparation, pre-processing, prefabrication, hull assembly, launching, equipping. Laboratory: quality control in the construction of ship and yacht hulls - non-destructive testing of materials and welded joints.								

Prerequisites and co-requisites	Basic in the field of: - mechanics - strength of materials - material science - welding					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria		100.0%	40.0%			
		60.0%	60.0%			
Recommended reading	Basic literature	Y. Okumoto, Y. Takeda, M. Mano, and T. Okada, Design of Ship In Structures. 2009. D. J. Eyres and G. J. Bruce, "Ship Construction, 7th Edition," (in English), Ship Construction, 7th Edition, pp. 1-388, 2012. PRS rules				
	Supplementary literature	articles pointed out by the lecturer internet sources				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/	Differences between a bench method and a sequence of flat sections					
example questions/ tasks being completed	Selection of nondestructive testing methods for the weld imperfections being sought					
Work placement	Not applicable					

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