

Subject card

Subject name and code	Fundamentals of Shipbuilding, PG_00060464							
Field of study	Mechanical and Naval Engineering							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025		
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 Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Jakub Kowalski					
	Teachers	dr inż. Ryszard Pyszko						
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	ıded: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study SUM		SUM
	Number of study hours	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			
			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.							

Data wygenerowania: 28.02.2025 17:11 Strona 1 z 2

Prerequisites and co-requisites	Basic in the field of: - mechanics - strength of materials - material science - welding					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
		100.0%	40.0%			
		60.0%	60.0%			
Recommended reading	Basic literature	Y. Okumoto, Y. Takeda, M. Mano, and T. Okada, Design of Ship Hull Structures. 2009.				
	D. J. Eyres and G. J. Bruce, "Ship Construction, 7th Editi 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:				
		Podstawy budowy statków i jachtów - Moodle ID: 45279 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45279				
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					

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

Data wygenerowania: 28.02.2025 17:11 Strona 2 z 2