

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						d Ship	
Name and surname	Subject supervisor	dr inż. Jakub	lr inż. Jakub Kowalski					
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	27.0	9.0	9.0	0.0		0.0	45
	E-learning hours included: 0.0							1
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	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							

Data wydruku: 28.04.2024 07:06 Strona 1 z 2

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 Hull 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/ example questions/ tasks being completed	Differences between a bench method and a sequence of flat sections Selection of nondestructive testing methods for the weld imperfections being sought					
Work placement	Not applicable					

Data wydruku: 28.04.2024 07:06 Strona 2 z 2