

Subject card

Subject name and code	Shipbuilding Technology, PG_00060546								
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	5		ECTS credits			8.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor dr inż. Jakub Kowalski								
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	ect Seminar		SUM	
of instruction	Number of study hours	30.0	0.0	30.0	30.0		0.0	90	
	E-learning hours inclu	uded: 0.0		•					
Learning activity and number of study hours	Learning activity	Participation in classes include plan			Self-study		SUM		
	Number of study hours	90		9.0		101.0		200	
Subject objectives	To consolidate and expand the knowledge of steel hull construction. Intermediate objectives: familiarization with: frame processes of hull technology, production organization, quality control								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_K02] can work in a team, assuming various roles, can act in a rational and ethical way		The student is able to derive conclusions based on information from his collaborators.			[SK2] Assessment of progress of work			
	[K6_W03] has knowledge of hydromechanics, thermodynamics, machine design, ecology, materials science necessary to understand the principles of construction and operation of ocean engineering facilities and equipment		The student has a structured knowledge of the process of building a steel ship hull			[SW1] Assessment of factual knowledge			
	[K6_W02] has knowledge in the field of technical mechanics, fluid mechanics, strength of materials, necessary to understand the basic physical phenomena occurring in ocean engineering		The student understands the physical phenomena occurring in the manufacturing process of the ship's hull. He can consider their influence on the process of construction and assembly of the structure			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents Lecture									
,	General characteristics of the shipbuilding process. Life cycle of a ship. Stages of ship construction and characteristic processes associated with them. Laboratory								
	Measurements performed from the shipbuilding process								
	Project								
	 development of the technology of the frame flat section. preparation of a general construction schedule for the selected vessel on the basis of mass indicators for the ship's steel hull structure 								

Data wydruku: 18.07.2024 10:39 Strona 1 z 2

Prerequisites and co-requisites	Topics covered in the subjects of the group: - material science (structural materials) - welding - mechanics - strength of materials						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
		100.0%	30.0%				
		100.0%	30.0%				
		60.0%	40.0%				
Recommended reading	Basic literature	Polish Ship Register, Rules for ship construction, part II - hull (The most recent release is available on www.prs.pl) Polish Ship Register, Rules for ship construction, part IX - Materials and welding (The most recent release is available on www.prs.pl)					
		Polish Ship Register, Publication 07/P Shipbuilding and repair quality standards (The most recent release is available on www.prs.pl)					
		Lamb, Thomas. (2003 - 2004). Ship Design and Construction, Volumes 1-2; Society of Naval Architects and Marine Engineers (SNAME). The book is available in Knovel database (entrance via GUT library site)					
		Bruce, George J. Eyres, David J (2012). Ship Construction (7th Edition). Elsevier. The book is available in Knovel database (entrance via GUT library site)					
		Doerffer J. Technologia budowy kadłubów okrętowych - in Polish					
		Kozak, J. (2015). <i>Pomiary w procesie budowy kadłuba statku</i> . 1-95 in Polish					
	Supplementary literature	materials in the form of drawings, catalogs and standards used in the industry internet sources					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Design of the technology of a given flat section						
Work placement	Not applicable						

Data wydruku: 18.07.2024 10:39 Strona 2 z 2