



Subject card

Subject name and code	Technology of production and manufacturing of Means of Transport, PG_00056209						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025		
Education level	first-cycle studies		Subject group				
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		2.0		
Learning profile	general academic profile		Assessment form		assessment		
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 hab. inż. Karol Niklas				
	Teachers		dr hab. inż. Karol Niklas				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		3.0		17.0	50
Subject objectives	The student learns the basics of technology of construction and repair of marine transportation means.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W08] has knowledge regarding the principles of sustainable development		The student knows and understands how the technological processes of ship construction and repair affect the environment.		[SW1] Assessment of factual knowledge		
	[K6_W06] has an organized knowledge on engineering methods and design tools allowing the conducting of projects within the construction and operation of means and systems of transport		The student has basic knowledge of shipbuilding and ship repair. He can use it to supervise the construction of a ship and its repair in the shipyard.		[SW1] Assessment of factual knowledge		
	[K6_W05] has an organized knowledge on design, construction and operation of means and systems of transport		The student can describe the main methods of shipbuilding and ship repair. Can describe the basic shipbuilding processes and equipment for ship construction and repair.		[SW1] Assessment of factual knowledge		
Subject contents	General characteristics of the technological process of shipbuilding and basic methods of assembly of ship hulls. The manufacturing process of ships. The student recognizes and describes the basic types of shipyards, methods of material processing, recognizes the main processes of construction and repair of ship structures. Identifies, classifies and characterizes the basic steel materials used in shipbuilding. Describes the technological equipment used in pre-treatment processes: describes the prefabrication and assembly processes during ship construction and the process of launching a ship. Becomes familiar with basic issues in ship maintenance.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	colloquium		50.0%		100.0%		

Recommended reading	Basic literature	<p>1. Bruce, George J.; Eyres, David J., Ship Construction (7th Edition), ISBN: 978-0-08-097239-8, Elsevier 2012</p> <p>2. Mathers G., The welding of aluminium and its alloys. ISBN-10: 1855735679 ISBN-13: 9781855735675</p> <p>3. Norrish J., Norrish J. , Advanced Welding Processes (New Manufacturing Processes & Materials), ISBN-10: 0852743254, ISBN-13: 978-0852743256, Springer; 1993</p>
	Supplementary literature	<p>1. Bruce, George J.; Eyres, David J., Ship Construction (7th Edition), ISBN: 978-0-08-097239-8, Elsevier 2012</p> <p>2. Mathers G., The welding of aluminium and its alloys. ISBN-10: 1855735679 ISBN-13: 9781855735675</p> <p>3. Norrish J., Norrish J. , Advanced Welding Processes (New Manufacturing Processes & Materials), ISBN-10: 0852743254, ISBN-13: 978-0852743256, Springer; 1993</p>
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	General characteristics of the technological process of shipbuilding and basic methods of assembly of ship hulls. Diagram of the shipbuilding process. The student recognizes and describes the basic types of shipyards , methods of material processing, recognizes the main processes of ship construction and repair. Identifies, classifies and characterizes basic steel materials used in shipbuilding. Describes technological equipment used in pre-treatment processes: describes prefabrication and assembly processes during shipbuilding and the ship launching process. Becomes familiar with basic issues in ship maintenance.	
Work placement	Not applicable	

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