



## Subject card

Subject name and code	Technology of production and manufacturing of Means of Transport, PG_00045234						
Field of study	Transport and Logistics, Transport and Logistics						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2022/2023		
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	Department of Ship Manufacturing Technology, Quality Systems and Materials Science -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Karol Niklas				
	Teachers		dr 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 the technology of construction, manufacturing and repair of means of transport (mainly seagoing ships)						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W05] has an organized knowledge on design, construction and operation of means and systems of transport		The student identifies the main methods of building and repairing ships. Can describe the basic shipbuilding processes and equipment for ship building and repair.		[SW1] Assessment of factual knowledge		
	[K6_W08] has knowledge regarding the principles of sustainable development		The student knows and understands how the technological processes of building and repairing a ship 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 in the field of shipbuilding and repair. He can use it to supervise the construction of a ship and its renovation in a shipyard		[SW1] Assessment of factual knowledge		
Subject contents	Lecture: General characteristics of the technological process of building a ship and basic methods of assembling ship hulls. Diagram of the ship manufacturing process. The student recognizes and describes the basic types of shipyards, methods of material processing, recognizes the main processes of shipbuilding and repair. Identifies, classifies and characterizes basic steel materials used in shipbuilding. Describes technological equipment used in pre-treatment processes: describes the processes of prefabrication and assembly during ship construction and the ship launching process. Become familiar with the basic issues related to the maintenance of the technical condition of the ship (repairs)						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	kolokwium końcowe		60.0%		100.0%		

Recommended reading	Basic literature	<p>1.Doerffer Jerzy – Technologia budowy kadłubów okrętowych</p> <p>2.Palasik Lucjan – Monter kadłubowy</p> <p>3.Więckiewicz Wojciech – Budowa kadłubów statków morskich</p> <p>4. Przepisy PRS – Część IX – Materiały - Lipiec 2020</p> <p>5. Notatki z prezentacji wykładów.</p>
	Supplementary literature	<p>1.Bruce George;Eyres David - Ship Construction7th Edition</p> <p>( pdf do ściągnięcia legalnie z Internetu)</p>
	eResources addresses	<p>Adresy na platformie eNauczanie:</p> <p>Technologia budowy i wytwarzania środków transportu, W, STW, sem. 05, zimowy 22/23 - Moodle ID: 27599</p> <p><a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27599">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27599</a></p>
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	