



## Subject card

Subject name and code	Ship Production Setup, PG_00045104						
Field of study	Ocean Engineering, Ocean Engineering						
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	6		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 inż. Mohamed Behilli				
	Teachers		dr inż. Mohamed Behilli				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0	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		4.5		15.5	50
Subject objectives	The student lists and describes the processes of preparing shipbuilding. He analyzes the shipbuilding process and identifies the various stages and ranges of its production. Calculates the required amount of material for a given section of the ship structure. Estimates the amount of work required for the selected section. Prepares a construction schedule for a selected fragment of the ship's structure. Develops a framework technology for building a ship.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K03] understands non-technical aspects and effects of operation as an engineer, its influence on the environment and is aware of the responsibilities for the decisions taken		The student gets to know potential sources environmental pollution in shipbuilding and method prevention through appropriate applications friendly processes technology during production of watercraft.		[SK3] Assessment of ability to organize work		
	K_U05		The student does the work design using standards and materials in the field of shipbuilding.		[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
	[K6_W06] 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 does the work project consisting of development of documentation technological preparation ship production for the selected one flat section.		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		Student using possessed knowledge can be realized simplified engineering design in preparation.		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		

Subject contents	<p>Project</p> <p>Preparation of shipbuilding as a process of timely creation of appropriate documentation, which is the necessary basis for the correct implementation of the shipbuilding process. Will be discussed, among others the following topics:</p> <ul style="list-style-type: none"> <li>• § Definition of design and technological preparation of production</li> <li>• § Division of the shipbuilding process into phases, stages and tasks.</li> <li>• § Processes of developing construction and technological documentation - types of documents</li> <li>• § Ship production labor intensity</li> </ul> <p>The student, on the basis of the knowledge acquired during the course of the project and literature studies, on the basis of model standards, instructions and shipbuilding norms, will develop the basic types of technological and calculation documentation for the selected flat section.</p>		
Prerequisites and co-requisites	<p><b>Subjects taught in previous years in the field of:</b></p> <ul style="list-style-type: none"> <li>• Shipbuilding Technology I (O:098010)</li> <li>• Shipbuilding Technology II (O:098011)</li> </ul>		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	100.0%	100.0%
Recommended reading	Basic literature	<ol style="list-style-type: none"> <li>1. Doerffer J.: Ship hull construction technology. WM Gdynia 1971.</li> <li>2. Doerffer J.: Ship outfitting technology. WM Gdynia 1975.</li> <li>3. Doerffer J.: Ship hull renovation technology. WM Gdynia 1966.</li> <li>4. J. Doerffer: Organization of production in the shipyard. WM Gdynia 1971</li> <li>5. I. Durlik: Engineering management, production organization strategies. New management concepts. Part 1</li> <li>6. I. Durlik: Engineering management, strategy and design of production systems in a market economy. Part 2</li> <li>7. Kazimierz Szatkowski - Preparation of production. Warszawa 2008</li> </ol>	
	Supplementary literature	<ol style="list-style-type: none"> <li>1. Teaching materials from the subject.</li> <li>2. Shipbuilding documentation in the form of drawings, catalogs and standards used in the preparation of production in the shipbuilding industry.</li> </ol>	
	eResources addresses	<p>Podstawowe</p> <p><a href="https://enauczanie.pg.edu.pl/moodle/course/edit.php?id=28595">https://enauczanie.pg.edu.pl/moodle/course/edit.php?id=28595</a> - Adresy na platformie eNauczanie:</p> <p>Przygotowanie Produkcji Okrętowej (O:098850)_Lato 2023 _Projekt - Moodle ID: 28595</p> <p><a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28595">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28595</a></p>	

<p>Example issues/ example questions/ tasks being completed</p>	<p>Prepare a (Gantt) schedule of the execution work for 10 similar sections during the month</p> <p>Explain the following terms: organization of production, competition according to the Central Statistical Office, division of the ship into classes, PKWiU standard,</p> <p>For a given flat section (according to the drawing), calculate the labor consumption of its implementation for the adopted shipyard conditions, determine the production capacity of 10 similar sections</p>
<p>Work placement</p>	<p>Not applicable</p>