



Subject card

Subject name and code	Ship Production Technology 2, PG_00046533						
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	Part-time studies	Mode of delivery			at the university		
Year of study	3	Language of instruction			Polish		
Semester of study	6	ECTS credits			6.0		
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. Ryszard Pyszko					
	Teachers	dr inż. Mohamed Behilil dr inż. Ryszard Pyszko					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	20.0	0.0	10.0	20.0	0.0	50
	E-learning hours included: 0.0						
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18265						
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	50	7.0		93.0		150
Subject objectives	The aim of the course is to explain the basic processes taking place during the construction of a ship, in terms of the basic laws of physics, work organization, which leads to the ability to estimate the production efficiency of a shipyard.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems	The student has knowledge of the conduct and organization of production processes in a shipyard			[SW1] Assessment of factual knowledge		
	[K6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of ocean technology objects and systems	The student is able to formulate the basic production processes and parameters describing the production efficiency			[SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	<ol style="list-style-type: none">1. Reminder of the information from the subject of the previous semester2. Characteristics of the pre-treatment process3. Characteristics of the machining process4. Prefabrication of lobe panels5. Prefabrication of micropanels6. Prefabrication of curvilinear lobe panels7. Prefabrication of spatial panels and equipment8. Block prefabrication and equipment9. Painting and maintenance line10. Hull assembly on launching rig11. Launching and driving equipment12. Trials of the ship13. On the ship14. Guarantee of the yard						

Prerequisites and co-requisites	Courses taught in previous years in the field: - Materials, - Welding, - Metal forming. Continuing the subject of the semester 6		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Reports from the lab	100.0%	10.0%
	The oral examination	60.0%	40.0%
	Project	100.0%	50.0%
Recommended reading	Basic literature	Literatura podstawowa: 1.Doerffer J.: Technologia budowy kadłubów okrętowych. WM Gdynia 1971. 2.Doerffer J.: Technologia wyposażania statków. WM Gdynia 1975. 3.Mackiewicz W.: Osnovy tiehnologii sudostrojenia. Leningrad 1980. 4.Wiebeck E.: Technologie des Schiffskorperbaus. Technik Berlin 1980. 5.Bujniewicz Z. i inni: Stopy aluminium w budownictwie okrętowym. WM Gdańsk 1971. 6.Myśliwiec M.: Spawalnictwo okrętowe. WM Gdańsk 1971. 7.Butnicki S.: Stale i żeliwa dla przemysłu okrętowego. WM Gdynia 1959. 8.Kowarsch A., Żaczek Z.: Spawanie konstrukcji okrętowych w osłonie gazów. WM Gdańsk 1984. 9.Doerffer J.: Technologia wyposażania statków. WM Gdańsk 1975. 10.Poradnik inżyniera - Spawalnictwo. WNT Warszawa 1983. 11.Kuzminow S.: Swarocznyje deformacji sudowych konstrukcji. Sudostrojenije 1974. 12.Janusz W.: Obsługa geodezyjna budowli i konstrukcji. PPWK Warszawa 1971. 13.Żurowski A.: Pomiary geodezyjne w budownictwie morskim. WM Gdańsk 1980. 14.Mazurkiewicz B.: Encyklopedia inżynierii morskiej. WM Gdańsk 1986. 15.Doerffer J.: Technologia remontów kadłubów okrętowych. WM Gdynia 1966. 16.Bieńkowskij D.: Technologia sudoremonta. Transport Moskwa 1976	
	Supplementary literature	Literatura uzupełniająca: 1. Materiały dydaktyczne z przedmiotu. 2. Materiały w formie rysunków, katalogów oraz norm stosowanych w przygotowaniu produkcji w przemyśle okrętowym.	
	eResources addresses	Adresy na platformie eNauczanie: Technologia budowy okrętów II, W, OCE, sem. 06, lato 22/23 (O: 098011n) - Moodle ID: 29291 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29291 Technologia budowy okrętów II, W, OCE, sem. 06, lato 22/23 (O: 098011n) - Moodle ID: 29291 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29291	
Example issues/ example questions/ tasks being completed	<p>Explain the mechanism of deformation during hot cutting</p> <p>Explain the mechanism of formation of deformation during weldingProvide and explain the rules for carrying out work related to the straightening of ship structures</p>		
Work placement	Not applicable		