



## Subject card

Subject name and code	Ship Production Technology 2, PG_00046533						
Field of study	Ocean Engineering						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies	Subject group					
Mode of study	Part-time studies	Mode of delivery			at the university		
Year of study	4	Language of instruction			Polish		
Semester of study	8	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. 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						
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 familiarize students: the shipyard production equipment, process to be executed on them, an explanation of the issues related to the organization of production, the requirements of the system of supervision and inspection of the ship, offshore structures, examples, ship repair problems.						
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 is acquainted with ocean engineering objects and systems in terms of their manufacturing technology			[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	Large-size objects, e.g., ship hull block structures, spatial and panels			[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment		
Subject contents	<p>Technology Lectures II. First there will be a reminder in terms of the previous lectures, as well as some of the news from other subjects. Then the production processes will be discussed according to the block diagram of ship hull production. The processes will be described and explained in terms of: organization, implementation, evaluation of correctness and efficiency of their implementation. This will allow to understand the purposefulness of the processes carried out, as well as to make corrective decisions in case of discrepancies between the planned production result. Making decisions on the basis of a correct understanding of the phenomena will give confidence in obtaining a corrective effect.</p>						
Prerequisites and co-requisites	knowledge from previous semesters and generally with welding, of Metal Science, strength of materials						
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Test	60.0%			60.0%		
	Project work	100.0%			20.0%		
	Laboratory	100.0%			20.0%		

Recommended reading	Basic literature	<ol style="list-style-type: none"> <li>1. Doerffer J. : Technology Equipment of Ships. In 1975 Gdynia.</li> <li>2. Doerffer J. : The technology of building hulls. WM 1971 Gdynia.</li> <li>3. Doerffer J. : Technology ship repair. WM 1973 Gdynia</li> <li>4. Wiebeck E. : Technologie des Schiffskorperbaus. Technik Berlin in 1980.</li> <li>5. Rosochowicz K. : Problems of fatigue cracking the hulls of ships. Okręt.i Shipping, Gdańsk 2006</li> <li>6. Przepisy classification societies PRS; DNV; LR; ABS; GL.</li> <li>7. Poradnik Engineer - Welding.</li> <li>8. Rosochowicz K. et al, Transport on air cushions TRAPO; PG WOiO, Gdańsk 1993;</li> <li>9. Gourd L. Fundamentals for Technology Welding, WNT, Warsaw 1997;</li> <li>10. Okerblom, NO: Designing technology of weldments, 1963;</li> </ol>
	Supplementary literature	<ol style="list-style-type: none"> <li>1. Cudny K. (editors): metallurgy, ship. Gdansk University of Technology Publishing House 2001</li> <li>2. Myśliwiec M. : Welding ships. WM Gdańsk.</li> <li>3. Kowarsch A., Żaczek Z. : welding of ship structures in the shielding gas. WM Gdańsk 1984</li> <li>4. Żurowski A. : Surveying in marine construction. WM Gdańsk 1980</li> <li>5. Karlic S. : Outline offshore. Publisher Silesia 19883</li> <li>6. Mather A. : Offshore Engineering - an Introduction. Ed. : Whitherby, 1995</li> <li>7. czasopisma professional: Journal of Ship Production; Naval Architect; Offshore Magazine;</li> </ol>
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. List the scope of work and explain how deformations of parts are produced at the machining stage proper?</li> <li>2. List the scope of work and explain how welding deformations occur at the prefabrication stage proper?</li> <li>3. Characterize the problems associated with the straightening of ship structures.</li> </ol>	
Work placement	Not applicable	