

Subject card

Subject name and code	, PG_00056292								
Field of study	Ocean Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
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			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						
	mgr inż. Alicja Bera								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	30.0	0.0	15.0	30.0		0.0	75	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM				
	Number of study hours	75		15.0		60.0		150	
Subject objectives	The purpose of the course is to remind students of the issues related to the production of a ship's hull and to explain the basics of the principles of implementing characteristic manufacturing processes.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[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 has a structured knowledge of the methods and organization of ship hull production and selected outfitting work			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
	[K6_U06] in compliance with a formulated specification and with the aid of appropriate tools and methods, is able to complete a simple engineering task within the range of design, construction and operation of ocean technology objects and systems		The student is able to develop technologies for manufacturing objects for shipbuilding and offshore purposes			[SU3] Assessment of ability to use knowledge gained from the subject			
	[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 develop a framework technology for the construction of large-scale structures			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject			
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		The student has a structured knowledge of the implementation of ship hull construction, lobe sections, space sections and blocks.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			

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Subject contents	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 physical phenomena occurring during production. This will allow you to understand the physical laws implemented during the application of the described processes, as well as to make corrective decisions in case of obtaining a discrepancy between the planned intention and the production result. Making decisions on the basis of a correct understanding of the phenomena will give confidence that a corrective effect will be achieved. Is it 100%? This is not always possible or expedient (e.g., cost-effective).						
Prerequisites and co-requisites	Subject knowledge: Fundamentals of Ship Construction, Ship Drawing, Ship Materials Science, Ship Welding, Ship Design, Ship Construction and Repair Technology I						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Written examination	60.0%	34.0%				
	Essay	100.0%	33.0%				
	Semester/diploma dissertation	100.0%	33.0%				
Recommended reading	Basic literature	Basic literature 1.Doerffer J.: Technologia wyposaż 2.Doerffer J.: Technologia budowy l 1971. 3.Doerffer J.: Technologia remontu 4.Wiebeck E.: Technologie des Sch 1980. 5.Rosochowicz K.: Problemy pękan statków. Okręt.i Żegluga, Gdańsk 2 6.Przepisy towarzystw klasyfikacyjn 7.Poradnik inżyniera - Spawalnictwo 8. Rosochowicz K. i inni, Transport TRAPO; PG, WOiO, Gdańsk 1993; 9. Gourd L. Podstawy Technologi S 10. Okerbłom, N.O: Projektowanie t spawanych,1963; 11. Borzęcki,T.,Rosochowicz K.: Us cienkich poszyć stalowych metodą i acetylenowym z jednoczesnym chło WOiO,Gdańsk 1983; 12.Kolenda T.,Moszyński M.: Elast naprężeń w próbce płaskiej, PG WO 13. Augustyniak, B.: i inni: Badania rozkładu naprężeń, Krajowa Kon Szczyrk, 1997, s.255-262,	kadłubów okrętowych. WM Gdynia statków. WM Gdynia 1973 iffskorperbaus. Technik Berlin ia zmęczeniowego kadłubów 006 ych: PRS; DNV; LR; ABS; GL . D. na poduszkach powietrznych pawalniczych, WNT, W-wa 1997; echnologii wykonania konstrukcji suwanie odkształceń spawalniczych nagrzewania palnikiem tlenowodzeniem wodnym, PG poptyczne modelowanie na pole DiO, Gdańsk 1983; za pomocą efektu Barkhausena				
	Supplementary literature	Supplementary literature 1.Cudny K. (redakcja): Metaloznawstwo okrętowe. Wydawnictwo Politechniki Gdańskiej 2001 2.Myśliwiec M.: Spawalnictwo okrętowe. WM Gdańsk . 3.Kowarsch A., Żaczek Z.: Spawanie konstrukcji okrętowych w osłonie gazów. WM Gdańsk 1984 4.Żurowski A.: Pomiary geodezyjne w budownictwie morskim. WM Gdańsk 1980 5.Karlic S.: Zarys górnictwa morskiego. Wydawnictwo Śląsk 19883 6.Mather A.: Offshore Engineering - an Introduction. Wyd.: Whitherby, 1995 7.czasopisma fachowe: Journal of Ship Production; Naval Architect; Offshore Magazine;					
	eResources addresses	Moodle ID: 32737	echnologia budowy okrętu II,W,P,L, zima 23/24,(PG_00056292) -				
Example issues/ example questions/ tasks being completed	Explain what is included in the framework technology for the construction of a shipbuilding facility, e.g., lobe section, ship block?Explain what basic manufacturing processes are used in shipbuilding?What does hot straightening of ship structures consist of?						
Work placement	Not applicable						

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