

Subject card

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Subject name and code	Laminate Yacht Canstruction, PG_00056250								
Field of study	Design and Construction of Yachts								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			2.0			
Learning profile	practical profile		Assessment form			assessment			
Conducting unit		ootyki Podwodnej -> Institute of Ocean Engineering and Ship Technology g and Ship Technology							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Lech Rowiński						
	Teachers		dr hab. inż. L						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	Project Se		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 ir classes include plan			Participation in consultation hours		Self-study		SUM	
	Number of study hours	, ,		4.0		16.0		50	
Subject objectives	Provide student with knowledge regarding design principles of yacht hull structures made of composites referenced to procurement of structures and calculations based on rules of classification societies								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U06		Student is able to design (define geometry) of an element of ship structure following requirements of Polish Register of Ships			[SU1] Assessment of task fulfilment			
	K6_U05		Student is able to define a task regarding definition of requirements to composite hull structure based on indicated standards			[SU3] Assessment of ability to use knowledge gained from the subject			
	K6_W05		Student knows principles of design of reinforced plastic structures and relationships between design and processes of manufacturing of the structures			[SW1] Assessment of factual knowledge			
Subject contents	Review and the selection of non-metal materials applied in shipping constructions. The relationship of the construction with the technology in composite constructions. Review of constructional joints and the principles in designing process. Basic constructional calculations. The technological process of composite constructions. Technologies of forming the elements of the construction from reinforced resins. Technological gear and tools. Technological materials. The organization of the technological process. Investigation of the effectiveness of the technological process. The completation of constructional elements and finishing works. Technological requirements resulting from the recipes of classifying companies and norms. Seminary: The composite ingeredients and technologial requirements Technological Preparation of the technological gear Contac forming Vacuum forming and infusion Vacuums forming with the injection								
Prerequisites and co-requisites	0 0 0		-	<u> </u>				•	
Assessment methods	Subject passir	ng criteria	Pass	sing threshold		Per	centage of the	ne final grade	
and criteria	Short test during every lesson					100.0%			

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Recommended reading	Basic literature	Berger M. i inni: Poliestry wzmocnione w budownictwie okrętowym, Wydawnictwo Morskie, Gdynia, 1961.					
		Kozłowski J., Wilczopolski M., Wituszyński K.: Konstrukcje okrętowe z kompozytów polimerowych; Wydawnictwo Morskie, Gdańsk, 1982.					
		3. Przepisy klasyfikacji i budowy jachtów morskich (JAC), Część II, Kadłub 1996/1998					
		4. Przepisy klasyfikacji i budowy łodzi motorowych (MOT), Część II, Kadłub 1996/1998					
	Supplementary literature	Pielichowski J., "Technologia tworzyw sztucznych", Wydawnictwo Naukowo-Techniczne , wyd VI, 2003.					
		Rabek J., "Współczesna wiedza o polimerach", wyd PWN, Warszawa 2009					
	eResources addresses	Podstawowe					
		https://gardner.dragonforms.com-CompositesWorldmagazine -					
		https://www.r-g.de/ -					
		Uzupełniające					
		Adresy na platformie eNauczanie:					
		Konstrukcja jachtu laminatowego (PG_00056250) PBJ 2023 - Moodle ID: 33212 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33212					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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