

Subject card

Subject name and code	, PG_00055297							
Field of study	Ocean Engineering							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025		
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		3.0			
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. Krzysztof Wołoszyk					
	Teachers							
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		5.0		40.0		75
Subject objectives	To teach students de hull structure is desig conducted based on	ned based on t	the criteria of r	minimal thickne				

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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	Student understands influence of requirements concerning ship's stability, ability to float in flooded conditions, properties of ship propulsion system, sea keeping properties and characteristics of materials used – on ship hull structure. Student knows basic requirements of Classification Societies Rules. Student understands problem of strength of ship hull structures(predicting stress values, buckling and fatigue strength analysis. Student is able to make sketches showing typical arrangements of ship hull structures.	[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	[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	Student is able to propose configuration and arrangement of basic elements forming a ship hull structure and find their scantlings that fulfill the criteria of strength.	[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information			
	[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	Student knows structures of typical floating objects and understands restrictions indicating from criteria to be fulfilled (stability, strength, technoligical aspects) and knows basic methods of strength analysis.	[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	[K6_U02] can work individually and in a team, communicate through various techniques in professional environment and also record, analyse, and present the results of work, can estimate the time needed to complete a given task	Student is able to write the final report from conducted project works and is able to present the results of his/her work during the project.	[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task			
Subject contents	Lecturer shows reasonable arranger computations to obtain required dimensional computations and the computations are students may discuss with lecturer and the computations are students.	ensions of the elements and their we	Ided connections.			
Prerequisites and co-requisites	Student should have knowledge on s	ship hull structures collected at lectur	res in semesters III and IV.			
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	assessment of the design exercise	50.0%	100.0%			
Recommended reading	Basic literature	M.Bogdaniuk, Lectures on ship h Polski Rejestr Statków, Rules for sea-going ships, Part II - Hull, 2019.	atków, Rules for classification and construction of			
	Supplementary literature	1S.Wewiórski, K.Wituszyński, <i>Konstrukcja stalowego kadłuba okrętowego</i> , Wyd. Morskie Gdańsk, 1977(in polish).				
	eResources addresses	Adresy na platformie eNauczanie:				

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Example issues/ example questions/ tasks being completed	Determine the thickness of outer bottom plating based on the local strength criteria and rules of classification societies. Determine the dimensions of upper deck stiffener based on the local strength criteria and rules of classification societies. Draw up the structural drawings.
Work placement	Not applicable

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