



Subject card

Subject name and code	, PG_00056285						
Field of study	Ocean Engineering						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2022/2023		
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	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Zakład Mechaniki Konstrukcji Oceanotechnicznych -> 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	dr inż. Krzysztof Wołoszyk mgr inż. Paweł Bielski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	15.0	0.0	0.0	0.0	45
	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	45	5.0		25.0	75	
Subject objectives	To acknowledge students with further topics of ship structures: strength of primary supporting members, fatigue strength, buckling of structural elements and determination of sea loads						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[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	Student is able to establish problems regarding structural requirements of ship hull structures			[SU2] Assessment of ability to analyse information		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems	Student has knowledge regarding specific requirements regarding ship structures			[SW1] Assessment of factual knowledge		
Subject contents	Strength of PSM, fatigue strength, buckling, sea loads.						
Prerequisites and co-requisites	Student should have basic knowledge on theory of ships, technical mechanics, design materials, technical drawings and lectures on ship structures from semesters III and IV.						
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	test (in written form)	60.0%			100.0%		

Recommended reading	Basic literature	As above (in Polish) and: 1. Polski Rejestr Statków, Rules for Classification and <i>Construction of Sea-going Ships,,Part.II Hull</i> , Gdańsk, 2011. 2. Polski Rejestr Statków, Rules for Classification and <i>Construction of Sea-going Ships,,Part.III Hull Equipment</i> , Gdańsk, 2007. 3. Polski Rejestr Statków, Rules for Classification and <i>Construction of Yachts</i> . 4. Det Norske Veritas, <i>Rulet for Classification of Mobile Offshore Units</i> . 5. IACS, Common Structural Rules for Bulk Carriers, 2006. 6. IACS, Common Structural Rules for Bulk Tankers, 2006.
	Supplementary literature	1. Det Norske Veritas, <i>Rulet for Classification of Mobile Offshore Units</i> . S.Wewiórski, <i>Wyposażenie kadłuba okrętowego</i> , Wydawnictwo Morskie, Gdańsk, 1971. 2. S.Wewiórski, <i>Wyposażenie kadłuba okrętowego</i> , Wydawnictwo Morskie, Gdańsk, 1971. 3. IACS, Common Structural Rules for Bulk Carriers and Oil Tankers, 2014.
	eResources addresses	Adresy na platformie eNauczenie: Konstrukcja Okrętu II, WC, Oce, sem. 04, letni 22/23 (PG_00056285) - Moodle ID: 27953 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=27953
Example issues/ example questions/ tasks being completed	Describe the problems of strength of primary supporting members, fatigue strength, buckling of structural elements and determination of sea loads	
Work placement	Not applicable	