



Subject card

Subject name and code	Hull Equipment, PG_00045064						
Field of study	Ocean Engineering, Ocean Engineering						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2022/2023		
Education level	first-cycle studies		Subject group				
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		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Faculty of Ocean Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Agnieszka Maczyszyn				
	Teachers		dr inż. Agnieszka Maczyszyn				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/						
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		3.0		17.0	50
Subject objectives	Getting to know the functions and principles of operation of basic marine equipment and systems in accordance with the requirements regulations of classification societies and applicable standards regarding the requirements for this type of devices.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W08] has knowledge of the principles of sustainable development		The student knows the ecological solutions used in the hull equipment of the ship.		[SW1] Assessment of factual knowledge		
	[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 is able to perform calculations based on the regulations and select the appropriate hull equipment of the ship.		[SW2] Assessment of knowledge contained in presentation		
Subject contents	1. Anchor devices and equipment; 2. Mooring devices and equipment 3. Steering gear 4. Rescue devices and equipment i rescue. 5. Fire-fighting equipment and installations (water-hydrant, CO2, foam, inert gas). 6. Ballast and bilge installations. 7. Transhipment methods and devices.						
Prerequisites and co-requisites	Fundamentals of machine building Engineering graphics Machine technical drawing						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Presentation of the task		60.0%		50.0%		
	Test		60.0%		50.0%		

Recommended reading	Basic literature	Dietrich M. i inni: Podstawy konstrukcji maszyn . WNT 1999 Szala J.: Napędy Mechaniczne - materiały z podstaw konstrukcji maszyn. Wydawnictwo ATR - Bydgoszcz 1997 Stryczek S.: Napęd hydrostatyczny. Wydawnictwo Naukowo-Techniczne Warszawa 1999 Pawlicki K.: Elementy dźwignic. PWN, Warszawa, 1982 Wojtaszczyk B.: Urządzenia przeładunkowe drobnicowców. Wydawnictwo Morskie, 1988.
	Supplementary literature	Pałuch K., Puchalski J., Śliwiński A.: Statki poziomego ładowania. Trademar, Gdynia 1996 Perepeczko A.: Okrętowe urządzenia sterowe. Wydawnictwo Morskie Gdańsk 1983
	eResources addresses	Adresy na platformie eNauczanie: Wypożyczenie kadłubowe, W, Oce, sem.05,zimowy 22/23 (PG_00045064) - Moodle ID: 25834 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25834
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	