GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00056289		
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	
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	Zakład Wyposażenia Okrętu -> Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Agnieszka Maczyszyn	
	Teachers		

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

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_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 find the appropriate regulations of the Classification Society depending on the type of unit.	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [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	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 [SW3] Assessment of knowledge contained in written work and projects
[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 [SW3] Assessment of knowledge contained in written work and projects

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:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		