GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00056289
Field of study	Ocean Engineering

Date of commencement of studies	October 2021	Academic year of realisation of subject	2023/2024
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	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	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						

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.	[SW3] Assessment of knowledge contained in written work and projects [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.	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation
	[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.	[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment

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, CO_2, 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
	Test	60.0%	50.0%
	Presentation of the task	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: Wyposażenie kadłubowe, W, Oce, sem.05,zimowy 23/24 (PG_00056289) - Moodle ID: 31379 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31379

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