GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00056283		
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	3	ECTS credits	2.0
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. Michał Krężelewski
	Teachers	dr inż. Michał Krężelewski dr inż. Ewelina Ciba

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	15.0	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	4.0	16.0	50

Subject objectives

The introduction to the basic issues of the ship theory.

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	The student has structured knowledge of the design, construction and operation of ocean engineering facilities and systems.	[SW3] Assessment of knowledge contained in written work and projects
[K6_W08] has knowledge of the principles of sustainable development	The student has knowledge of the principles of sustainable development.	[SW3] Assessment of knowledge contained in written work and projects
[K6_U03] can use computer-aided design, production and operation tools for ocean technology objects and systems	The student can use the methods of computer aided design, production and operation of ocean engineering objects and systems.	[SU5] Assessment of ability to present the results of task

Subject contents

- Basics of experiment and model test in shipbuilding.
- Ship resistance: components of resistance, methods of determining.
- Gravity waves: division, parameters.
- Equations of motion of a ship in rough water.
- The theory of the ideal propeller
- Hull and propeller interaction.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Test	60.0%	100.0%

Recommended reading	Basic literature	J.Dudziak: Teoria Okretu A.Zborowski: Opór okrętu
	Supplementary literature	Skrypty laboratoryjne IOiO
	eResources addresses	Adresy na platformie eNauczanie: Teoria Okrętu I, w, Oceanotechnika, sem. 3, zimowy 22/23 - Moodle ID: 26676 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26676 Teoria Okrętu I, w, Oceanotechnika, sem. 3, zimowy 22/23 - Moodle ID: 26676 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26676
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	