GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Ocean Engineering Objects` Production Technology, PG_00045119		
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	6	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Ship Manufacturing Technology, Quality Systems and Materials Science -> Faculty of Mechanical Engineering and Ship Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Ryszard Pyszko	
	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

The aim of the course is to familiarize with the scope of the concept of ocean engineering as an interdisciplinary field of technology dealing with the research, exploitation and exploration of seas and oceans. This concept will be included in the technological aspect.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W08] has knowledge of the principles of sustainable development	The student knows the legal regulations related to the safety aspect of operational installations in the marine environment	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation
[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 analyze, prepare and prepare a project in terms of formal and legal terms in the field of construction and operation of ocean engineering facilities and systems	[SW1] Assessment of factual knowledge

Subject contents

1.Technology of exploitation of mineral resources lying on or under the seabed - extraction of oil and gas, polymetallic nodules and other deposits2.Technology of construction of offshore vessels and their systems; including offshore installation vessels3.Materials and technologies for the construction of offshore facilities4.Technology of construction and installation of selected mining and transportation facilities5.Settlement and construction of offshore housing (above-water and underwater)6. protection of the marine environment from the effects of human activities7. exploitation of ocean resources.

Prerequisites and co-requisites

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Preparation of the presentation by the student	100.0%	50.0%
	Lecture	60.0%	50.0%
Recommended reading	Basic literature	K. Mazurkiewicz: "Encyclopedia of Marine Engineering", 2009; Foundation for the Promotion of the Shipbuilding Industry and Maritime Economy; ISBN-978-83-60584-15-6 A.Wewiórski, Z.Wesołek, J.Puchalski: "Crude oil in sea transport", 2007; Trader Publishing House, Gdynia;ISBN -978-83924549-2-1J. Cydejko, J. Puchalski, G. Rutkowski: "Offshore Ships and Technologies", 2011- Gdynia, Trader Publishing House, ISBN 978-83-62227-24-2	
	Supplementary literature	Magazines: ShipingWorld & Shipbuilder, The journal of ocean technology; https://www.thejot.net/	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Give the main findings of the Jamaican Convention of 1982. What are manganese concretions and under what conditions Poland has access to them?		
Work placement	Not applicable		