



Subject card

Subject name and code	Ocean Engineering Objects` Production Technology, PG_00045119						
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	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_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		
	[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		[SW2] Assessment of knowledge contained in presentation [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
	Lecture	60.0%	50.0%
	Preparation of the presentation by the student	100.0%	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		