

Subject card

Subject name and code	, PG_00056320								
Field of study	Ocean Engineering								
Date of commencement of studies			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			3.0			
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	Subject supervisor		dr inż. Jacek Nakielski						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	0.0	15.0	0.0		0.0	45	
	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	45	5.0		25			75	
Subject objectives	The aim of the course is to familiarize students with the structure, operation and design of modern, especially unusual, devices used in shipbuilding and the offshore industry, as well as reloading in ports.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	knowledge on design, construction and operation of ocean technology objects and systems		Analyzes variants of possible design solutions in terms of reliability and economics, selects and prepares documentation of drawings and technical conditions for the device user.			[SW2] Assessment of knowledge contained in presentation			
	specification within the range of		Is able to determine the nature of the working loads of the designed device and calculate stresses in important elements and structural nodes using modern computer software.			[SU1] Assessment of task fulfilment			
	knowledge on engineering methods and design tools allowing the conducting of projects within the construction and operation of ocean technology objects and systems		Distinguishes between the types used current devices their functions, construction, method of operation and can determine their usefulness in various types of systems ship, port and offshore facilities for both transhipment and exploration, research and exploitation of offshore mineral resources.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			

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Subject contents	During the lecture, students will become familiar with the function, design and principles of operation of specialized modern devices, including: - used for transport and reloading in port and at sea; containers, large objects (e.g. platforms, wind turbines), dry bulk goods (coal, gravel, sand), liquid raw materials (oil, gas), - used to obtain raw materials lying at the bottom of the seas and oceans, namely sands, gravels, diamonds, other polymetallic nodules, which are equipped with various types of dredgers, e.g. lift, - specialized equipment used in ships for laying submarine pipelines and cables, as well as in equipment of platforms and drilling ships.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	laboratory	50.0%	50.0%				
	lecture	51.0%	50.0%				
Recommended reading	Basic literature	-					
	Supplementary literature	-					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Elements of the ro-ro unit handling system. Basic types of dredgers. Methods of laying pipelines on the seabed.						
Work placement	Not applicable						

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