GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00056320		
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	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 of lecturer (lecturers)	Subject supervisor	dr inż. Jacek Nakielski	
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	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	25.0	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
[K6_W05] has an organized 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
[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	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
[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	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

<table>
<tr><td>Subject contents</td><td>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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>laboratory</td><td>50.0%</td><td>50.0%</td></tr>
<tr><td>lecture</td><td>51.0%</td><td>50.0%</td></tr>
</table>
</td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>-</td></tr>
<tr><td>Supplementary literature</td><td>-</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">1. Elements of the ro-ro unit handling system.
2. Basic types of dredgers.
3. Methods of laying pipelines on the seabed.</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
</table>

Document generated electronically. Does not require a seal or signature.