



## Subject card

Subject name and code	, PG_00056298						
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		4.0		
Learning profile	general academic profile		Assessment form		exam		
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. Ryszard Pyszko				
	Teachers		dr inż. Ryszard Pyszko  mgr inż. Alicja Bera				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	15.0	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		50.0	100
Subject objectives	Familiarisation with deterioration of condition of ships, examples of failures and its consequences. Selected problems of particular technological shipyard processes during repairing or conversion. Chosen aspects of preparation of shipyard production as well as quality checking						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U04] has self-education skills in order to improve professional qualifications, is ready to work in industrial environment, adheres to HSE rules and regulations		Student is able properly select published papers for analysed problems		[SU2] Assessment of ability to analyse information		
	[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		Student is able to define of scope and methodology of elaboration of specification for review of technical condition of ship		[SU1] Assessment of task fulfilment		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		Student knows reasons for degradation of technical condition of ship, possible types of failures as well as procedure for its repairing		[SW1] Assessment of factual knowledge		
	[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		Project of volume section elaborated by student in scope preliminary defined by tutor		[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	<ul style="list-style-type: none"><li>Reasons for deterioration of condition of ships, examples of failures and its consequences.</li><li>Systems of surveying of ships and preventional repairing processes</li><li>Repairing shipyard - structure and its specific</li><li>Systems and tools for moving up of floating objects</li><li>Processess of docking</li><li>Selected problems of particular technological shipyard processes during repairing or conversion. Chosen</li><li>aspects of preparation of shipyard production as well as quality checking</li></ul>						

Prerequisites and co-requisites	Knowledge on structure of different types of ships as well as technology of its erection		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	lecture	60.0%	50.0%
	project	90.0%	50.0%
Recommended reading	Basic literature	Piero Cardis - "INSPECTION, REPAIR AND MAINTENANCE OIF SHIP STRUCTURES - WITHERBY	
	Supplementary literature	Rules of Classification - Det Norske Veritas Shiprepair and conversion technology- quartely	
	eResources addresses	Adresy na platformie eNauczanie: Technologia budowy okrętów III W, P, Sem.6,lato, 23/24,PG_00056298 - Moodle ID: 36695 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36695">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36695</a>	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		