



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">Reasons for deterioration of condition of ships, examples of failures and its consequences.Systems of surveying of ships and preventional repairing processesRepairing shipyard - structure and its specificSystems and tools for moving up of floating objectsProcesses of dockingSelected problems of particular technological shipyard processes during repairing or conversion. Chosen aspects of preparation of shipyard production as well as quality checking						

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 eNauczenie: Technologia budowy okrętów III W, P, Sem.6,lato, 23/24,PG_00056298 - Moodle ID: 36695 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=36695	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		