

Subject card

Subject name and code	Corrosion protection of ocean engineering facilities, PG_00060400										
Field of study	Ocean Engineering										
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024					
Education level	second-cycle studies		Subject group								
Mode of study	Part-time studies		Mode of delivery			at the university					
Year of study	2		Language of instruction			Polish					
Semester of study	3		ECTS credits			2.0					
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. Milena Supernak								
of lecturer (lecturers)	(lecturers) Teachers				dr inż. Milena Supernak						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM			
of instruction	Number of study hours	18.0	0.0	0.0	0.0		0.0	18			
	E-learning hours inclu	uded: 0.0									
Learning activity and number of study hours	Learning activity	g activity Participation in classes include plan				Self-study SUM		SUM			
	Number of study hours	18		0.0		0.0		18			
Subject objectives	The aim of the course is to familiarize the student with the types of corrosion in the water environment and the protection techniques currently used in the industry.										
Learning outcomes	Course outcome		Subject outcome			Method of verification					
	[K7_K02] is aware non-technical aspects and effects of operation as an engineer, its influence on the environment and is aware of the responsibilities for the decisions taken		The student defines the division and types of corrosion depending on the working environment. The student knows the methods of corrosion protection. The student knows the impact of assessment and technical objects on environmental degradation.			[SK2] Assessment of progress of work [SK1] Assessment of group work skills [SK3] Assessment of ability to organize work					
	[K7_W05] has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems		The student is able to analyze the type of corrosion on the basis of examples. The student understands the essence of the selection of material for the working environment and the choice of protection against degradation.			[SW3] Assessment of knowledge contained in written work and projects					
	[K7_W06] has an organized, widened knowledge on engineering methods and design tools allowing the conducting of advanced projects within the construction and operation of ocean technology objects and systems		The student is able to define the corrosion process and propose a corrosion protection method depending on the element and the working environment.			[SW3] Assessment of knowledge contained in written work and projects					

Data wydruku: 27.07.2024 04:35 Strona 1 z 2

1. Introduction to the topic of Corrosion 2. The Cottosive destruction 3. Surface preparation 4. Selection of protection 6. Cathodic protection 7. Corrosion of welded joints 8. Biocorrosion 7. Corrosion of welded joints 8. Biocorrosion 8. Subject passing criteria Passing threshold								
Assessment methods and criteria Subject passing criteria	Subject contents	 The Cottosive destruction Surface preparation Protection technologies Selection of protection. Cathodic protection Corrosion of welded joints 						
Passing the content of the lecture form written. form wr		Knowledge of metallic engineering r	Knowledge of metallic engineering materials is recommended.					
Passing the content of the lecture form written. form wr	Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
ochronie przeciwkorozyjnej", WPG Gdańsk 2022 • M. Głowacki; J. Łabanowski; M. Landowski "Współczesne materiały inżynierskie Wybrane grupy materiałów", WPG Gdańsk 2022 • A. Warszawki; S. Koter "Elektrochemia" Wybrane zagadnienia. Podręcznik do ćwiczeń rachunkowych; WUMK, Toruń 2005 • H. Bala "Korozja materiałów-teoria i praktyka" WIPMiFS, Częstochowa 2002 Supplementary literature • Głowacka M., Zieliński A.: Podstawy Materiałoznawstwa. WPG, Gdańsk 2011 • Dobrzański L.A.: Podstawy nauki o materiałach i metaloznawstwo WNT, Warszawa, 2002 eResources addresses • Adresy na platformie eNauczanie: Ochrona antykorozyjna obiektów oceanotechnicznych - Moodle ID: 38516 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=38516 Example issues/ example questions/ tasks being completed 1. What is corrosion? 2. List the types of corrosion. 3. What are the methods of fighting corrosion? 4. What is biocorrosion and how to protect against it? 5. What is coating protection?		Passing the content of the lecture	-					
Gdańsk 2011 Dobrzański L.A.: Podstawy nauki o materiałach i metaloznawstwo WNT, Warszawa, 2002 eResources addresses Adresy na platformie eNauczanie: Ochrona antykorozyjna obiektów oceanotechnicznych - Moodle ID: 38516 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=38516 Example issues/ example questions/ tasks being completed 1. What is corrosion? 2. List the types of corrosion. 3. What are the methods of fighting corrosion? 4. What is biocorrosion and how to protect against it? 5. What is coating protection?	Recommended reading		ochronie przeciwkorozyjnej", WPG Gdańsk 2022 • M. Głowacki; J. Łabanowski; M. Landowski "Współczesne materiały inżynierskie Wybrane grupy materiałów", WPG Gdańsk 2022 • A. Warszawki; S. Koter " Elektrochemia" Wybrane zagadnienia. Podręcznik do ćwiczeń rachunkowych; WUMK, Toruń 2005 • H. Bala "Korozja materiałów-teoria i praktyka" WIPMiFS, Częstochowa 2002					
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example questions/ tasks being completed 1. What is corrosion? 2. List the types of corrosion. 3. What are the methods of fighting corrosion? 4. What is biocorrosion and how to protect against it? 5. What is coating protection?		eResources addresses	Adresy na platformie eNauczanie: Ochrona antykorozyjna obiektów oceanotechnicznych - Moodle ID: 38516					
	example questions/	 2. List the types of corrosion. 3. What are the methods of fighting corrosion? 4. What is biocorrosion and how to protect against it? 5. What is coating protection? 						
Morte placement Not applicable	Work placement	Not applicable						

Data wydruku: 27.07.2024 04:35 Strona 2 z 2