

Subject card

Subject name and code	CORROSION IN FOOD INDUSTRY, PG_00064347							
Field of study	KOROZJA W PRZEMYŚLE SPOŻYWCZYM							
Date of commencement of studies	February 2026		Academic year of realisation of subject			2025/2026		
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study		
					Specialty 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	1		Language of instruction			Polish		
Semester of study	1		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Corrosion and Electrochemistry -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology						University of	
Name and surname	Subject supervisor	prof. dr hab. inż. Juliusz Orlikowski						
of lecturer (lecturers)	Teachers							
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30
	E-learning hours inclu	uded: 0.0						
Learning activity and number of study hours	Learning activity	ivity Participation in dic classes included in plan		Participation in consultation hours		Self-study SUM		SUM
	Number of study hours 30		5.0		15.0		50	
Subject objectives	The aim of the course is to provide knowledge about technology in the food industry, water systems, corrosion protection .							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K7_K03] can interact and work in a group, undertaking various roles within it		Carrying out laboratory classes partly in groups			[SK2] Ocena postępów pracy		
	[K7_U01] designs experiments using computer methods of data analysis, computer simulation and based on the state-of-the-art in knowledge of in accordance with the most recent scientific literature		Assessment of water corrosion hazard based on computer calculations			[SU1] Ocena realizacji zadania		
	[K7_W01] defines the phenomena and processes used to produce consumer goods and run services		Knowledge of ongoing corrosion processes			[SW1] Ocena wiedzy faktograficznej		
Subject contents	Course content – lecture Presentation of water treatment technology, construction of pipelines, construction materials. Presentation of corrosion hazards: general corrosion, corrosion under deposists, corrosion, zinc coating. Analysis of water composition, corrosion indexes. Overview of fruit juice and beer technology. Presentation of corrosion hazards in the food industry and discussion of construction materials.							
Prerequisites and co-requisites	knowledge of organic technology and corrosion protection technologies							
Assessment methods			Passing threshold			Percentage of the final grade		
and criteria	Exam		60.0%			100.0%		

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Recommended reading	Basic literature	L.L. Shreir, Corrosion, Newnes-Butterworths, 1976 Karl Weber, Food Inc.,A Participant Guide: How Industrial Food is Making Us Sicker, Fatter, and Poorer-And What You Can Do About It		
	Supplementary literature	A Participant Guide: How Industrial Food is Making Us Sicker, Fatter, and Poorer-And What You Can Do About It		
	eResources addresses			
Example issues/ example questions/ tasks being completed	Principles of electrochemical protection, coating protection, corrosion hazards in the food industry			
Practical activites within the subject	Not applicable			

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