

Subject card

Subject name and code	CORROSION PROTECTION OF METAL STRUCTURES, PG_00041294								
Field of study	Civil Engineering								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Option	Optional subject group		
Mode of study	Full-time studies		Mode of delivery			at the	at the university		
Year of study	1		Language of instruction			Polish	Polish		
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Metal	Structures -> F	aculty of Civil a	and Environme	ntal Enç	gineerin	ıg		
Name and surname	Subject supervisor		dr inż. Dariusz Kowalski						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t Seminar		SUM	
	Number of study hours	30.0	15.0	0.0	0.0		0.0	45	
E-learning hours included: 0.0									
Learning activity and number of study hours	Learning activity Participation in a classes included plan				Self-study SUM				
	Number of study hours	45		5.0		25.0		75	
Subject objectives	The purpose of the course is acquaint students with the problem of corrosion of metal parts causing loss of capacity, stability or functionality of technical systems. Types of corrosion will be presented and the process of their course. Will discuss ways to protect the metal from corrosion by coatings and metallization. Students learn the process of selection of the corrosion protection system for the selected components.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_U15] has advanced skills in civil engineering within offered specialization/profile		The student knows how to assess corrosive exposure and choose the appropriate protection			[SU3] Assessment of ability to use knowledge gained from the subject			
	[K7_W14] knows and applies building codes and obeys the Construction Law; has knowledge on environmetal impact of investment realisation		The student got acquainted with the standard approach to theassessment of corrosive conditions and methods of material protection			[SW1] Assessment of factual knowledge			
	[K7_W10] knows modern building materials as well as technologies and methods of its manufacturing and production of construction elements		The student knows the types of materials and methods used to protect the structure from corrosion			[SW1] Assessment of factual knowledge			
	[K7_W15] has deep and adequate knowlege of civil engineering, within offered specialization and profile		The student knows the causes and conditions of corrosion development. He can choose a material protection system against negative corrosion phenomena			[SW1] Assessment of factual knowledge			

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