



## Subject card

Subject name and code	STANDARDIZATION AND MANAGEMENT OF CORROSION, PG_00039726						
Field of study	Materials Engineering, Materials Engineering, Materials Engineering, Materials Engineering						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2022/2023		
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			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Electrochemistry, Corrosion and Materials Engineering -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Andrzej Miszczyk				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		1.0		9.0	25
Subject objectives	Getting acquainted with the standards, ways of using them in engineering practice. Standardization organizations in the world and in Poland. Standards. Sources of knowledge about corrosion - magazines, databases, books, standards. Technical report and diploma theses - requirements.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_W10	The student has knowledge concerning management, in particular quality management, business and economics.			[SW1] Assessment of factual knowledge		
	K6_W09	student has basic knowledge necessary for understanding social, economic, legal and other non-technical conditions engineering activities			[SW1] Assessment of factual knowledge		
	K6_K01	student is aware of the need to improve their professional competences, understands their limitations and the need to cooperate with experts, is able to set priorities in the implementation of tasks			[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice		
	K6_U03	The student is able to make an analysis functioning and evaluate related to engineering material - existing technical solutions, in particular device, objects, systems, processes, services			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject		

Subject contents	<p>Standard - definition, purposes of using standards, the need for standardization. Benefits. . International corrosion institutions and organizations: Association for Materials Protection and Performance (USA), EFC - European Corrosive Federation. PSK - Polish Corrosive Association. Institutions issuing legal acts and instructions on corrosion issues: ASTM - American Association for Standardization and Materials /system of standards/. American Mechanics Association (AMS), Steelwork Painting Committee (SSPC USA), Manufacturers of metals and coating materials. Executive companies. International Classification of Standards. Terminology. Normalization. Documentation. Quantities and units. Overview of ISO (PN-EN ISO) standards in the field of corrosion and corrosion protection. Corrosion magazines.</p>											
Prerequisites and co-requisites	absence											
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 551 786 584">Subject passing criteria</th> <th data-bbox="790 551 1139 584">Passing threshold</th> <th data-bbox="1142 551 1487 584">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 589 786 622"></td> <td data-bbox="790 589 1139 622">60.0%</td> <td data-bbox="1142 589 1487 622">30.0%</td> </tr> <tr> <td data-bbox="456 627 786 651"></td> <td data-bbox="790 627 1139 651">60.0%</td> <td data-bbox="1142 627 1487 651">70.0%</td> </tr> </tbody> </table>	Subject passing criteria	Passing threshold	Percentage of the final grade		60.0%	30.0%		60.0%	70.0%		
Subject passing criteria	Passing threshold	Percentage of the final grade										
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	60.0%	70.0%										
Recommended reading	Basic literature	organization homepages on the Internet, corrosion magazines, standard texts, company literature										
	Supplementary literature	advertising materials of manufacturers, product catalogs										
	eResources addresses	Podstawowe <a href="http://www.pkn.pl/www.ampp.org">http://www.pkn.pl/www.ampp.org</a> - standardization organizations Adresy na platformie eNauczenie:										
Example issues/ example questions/ tasks being completed	Corrosionist organizations in the world. The structure of a scientific article. Definition of the standard. Determination of surface cleanliness before painting.											
Work placement	Not applicable											