



## Subject card

Subject name and code	SEP qualifications, PG_00062749						
Field of study	Technologies for Industry 5.0						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2027/2028		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	4	Language of instruction			Polish		
Semester of study	7	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Division of Electrochemistry and Surface Physical Chemistry -> Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Jacek Ryl					
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30	2.0		18.0		50
Subject objectives	The aim of the subject is to acquire the knowledge necessary to obtain authorizations in the field of (D) supervision of installations, networks and electrical and gas devices and (E) operation of installations, networks and electrical and gas devices						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W04] demonstrates knowledge necessary to understand non-technical (legal, economic, ethical, environmental) conditions of engineering activities in the scope directly or indirectly related to the industrial revolution	The student has knowledge specific to identifying technical and non-technical problems in the field of supervision and operation of electricity and gas networks and devices			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation		
	[K6_K02] makes decisions independently, carries out a critical assessment of own actions and actions of managed teams, is ready to make decisions and accept responsibility for the consequences of these actions	The student is able to make decisions specific to electrical work in the field of supervision and operation of electricity and gas networks and devices.			[SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	The course will be conducted by SEP inspectors. The course content directly relates to the information necessary to take the SEP exam, immediately after completing bachelor studies.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold		Percentage of the final grade			
	exam	50.0%		100.0%			
Recommended reading	Basic literature	provided by SEP inspectors					
	Supplementary literature	n/a					
	eResources addresses	Adresy na platformie eNauczenie:					

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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