



Subject card

Subject name and code	Diploma seminar, PG_00062765						
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		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	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	0.0	0.0	0.0	0.0	15.0	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		2.0		33.0	50
Subject objectives	Preparation for the realization and defense of the thesis. Acquainting with elements of scientific methodology.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U03] has the ability to plan, prepare and carry out engineering activities using practical knowledge and understanding of the specificity of materials, devices and tools, processes and technologies, and prepare a substantive report		The student is able to correctly identify the research problem, formulate a hypothesis, select tools that allow for its verification, confirmation and refutation. Is able to prepare a research report		[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task		
	[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 synthetically present the basic assumptions regarding the implementation of the diploma thesis, describe the obtained results and the problems encountered		[SK4] Assessment of communication skills, including language correctness [SK2] Assessment of progress of work		
	[K6_K82] is equipped to participate in lectures, seminars and laboratory classes conducted in foreign language		The student is able to correctly use English-language sources and use technical vocabulary in the field of Industry Technology 5.0		[SK4] Assessment of communication skills, including language correctness		

Subject contents	Analysis of the faculty diploma regulations.		
	Elements of the methodology of preparing the thesis: selection of the subject and topic of the thesis, work schedulethesis, analysis of the state of knowledge in the subject of the diploma, literature review, work layout, main chapters,purpose of the work, conclusions, references, cost estimate of experimental research, editorial elements of the work: text, results calculation, charts, measurement errors.		
	Presentation of the general subject of the work, literature review.		
	Discussion of the results of own research.Presentation of the main results of the thesis.		
	Critical analysis of the thesis text.		
	Elements of the public presentation of work results. Preparation of the presentation for the defense of the thesis.		
	Presentation of typical questions for the defense of a thesis		
Prerequisites and co-requisites	Passed subjects from previous semesters		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	presentation of the scope of the work	100.0%	50.0%
	presentation of own results	100.0%	50.0%
Recommended reading	Basic literature	Scientific Method in Practice. Hugh G. Gauch Jr. Cambridge University Press (December 23, 2002). ISBN-13: 978-0521017084	
	Supplementary literature	Scientific literature, articles in JCR journals on the subject of thesis	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	What is the purpose of the research being conducted?		
	What are the research hypotheses?		
Work placement	Not applicable		

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