



## Subject card

Subject name and code	, PG_00055424						
Field of study	Nanotechnology						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2023/2024		
Education level	second-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	2	Language of instruction			Polish		
Semester of study	3	ECTS credits			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Zakład fizyki nanomateriałów -> Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Barbara Kościelska					
	Teachers	prof. dr hab. inż. Barbara Kościelska					
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		8.0	25	
Subject objectives	Preparation for the preparation and defense of the thesis.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K7_U01	Ability to use databases, scientific literature and draw conclusions.			[SU1] Assessment of task fulfilment		
	K7_U10	Ability to discuss and present the results of the work.			[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task		
	K7_W03	General knowledge of related scientific disciplines (chemistry, physics, nanotechnology) and awareness of the directions of their development.			[SW1] Assessment of factual knowledge		

Subject contents	<p>Analysis of departmental rules of diploma .</p> <p>Elements of methodology for the preparation of the thesis : the choice of subject matter and the subject of the work , the schedule of the thesis , an analysis of the state of knowledge of the subject thesis , literature review , system operation , the main chapters , aim, conclusions , references, an estimate of experimental research , editorial work elements : text, results computing , graphs , measurement errors .</p> <p>Presentation of the overall theme of the work , a review of the literature.</p> <p>Discussion of results of research of its own. Presentation of the main results of the thesis .</p> <p>Critical analysis of the text of the thesis .</p> <p>Elements of the public / oral presentation of the results of work. Prepare a presentation on the thesis defense .</p> <p>Presentation of typical questions the thesis defense .</p>														
Prerequisites and co-requisites	Completed courses of semesters 1-2 .														
Assessment methods and criteria	<table border="1" data-bbox="448 869 1487 1061"> <thead> <tr> <th data-bbox="448 869 798 907">Subject passing criteria</th> <th data-bbox="798 869 1141 907">Passing threshold</th> <th data-bbox="1141 869 1487 907">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 907 798 965">presentation of their research results</td> <td data-bbox="798 907 1141 965">100.0%</td> <td data-bbox="1141 907 1487 965">50.0%</td> </tr> <tr> <td data-bbox="448 965 798 1023">presentation of the thematic scope of work</td> <td data-bbox="798 965 1141 1023">100.0%</td> <td data-bbox="1141 965 1487 1023">20.0%</td> </tr> <tr> <td data-bbox="448 1023 798 1061">participation in seminars</td> <td data-bbox="798 1023 1141 1061">50.0%</td> <td data-bbox="1141 1023 1487 1061">30.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	presentation of their research results	100.0%	50.0%	presentation of the thematic scope of work	100.0%	20.0%	participation in seminars	50.0%	30.0%
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Recommended reading	Basic literature	Scientific Method in Practice. Hugh G. Gauch Jr. Cambridge University Press (December 23, 2002). ISBN-13: 978-0521017084													
	Supplementary literature	The scientific literature thesis													
	eResources addresses	Adresy na platformie eNauczanie: Seminarium dyplomowe - Moodle ID: 36764 <a href="https://enauzanie.pg.edu.pl/moodle/course/view.php?id=36764">https://enauzanie.pg.edu.pl/moodle/course/view.php?id=36764</a>													
Example issues/ example questions/ tasks being completed	-What is the aim of the research?														
Work placement	Not applicable														