



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	Analysis of departmental rules of diploma . 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 . Presentation of the overall theme of the work , a review of the literature. Discussion of results of research of its own. Presentation of the main results of the thesis . Critical analysis of the text of the thesis . Elements of the public / oral presentation of the results of work. Prepare a presentation on the thesis defense . Presentation of typical questions the thesis defense .		
Prerequisites and co-requisites	Completed courses of semesters 1-2 .		
Assessment methods and criteria	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%
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 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36764	
Example issues/ example questions/ tasks being completed	-What is the aim of the research?		
Work placement	Not applicable		