

Subject card

Subject name and code	, PG_00058699								
Field of study	Materials Engineering, Materials Engineering, Materials Engineering								
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		19.0				
Learning profile	general academic profile		Assessment form		assessment				
Conducting unit	Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics								
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Agnieszka Witkowska						
	Teachers		dr inż. Ewa Głowińska						
			dr hab. inż. Ewa Wagner-Wysiecka						
			dr hab. inż. Justyna Kucińska-Lipka						
			dr hab. inż. Andrzej Miszczyk						
		dr hab. inż. Paweł Ślepski							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	0.0		0.0	0	
	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	0		10.0		465.0		475	
Subject objectives	Preparation of the Strelaborating complete Diploma project imple	and reliable re	search reports			nical pr	oblems as we	ell as for	

Data wydruku: 09.04.2024 11:06 Strona 1 z 3

Learning outcomes	Course outcome	Subject outcome	Method of verification		
	K7_U05	Student realizing a diploma project of an experimental, computational or experimental-computational nature in the field of material engineering has the necessary knowledge about the general safety rules and potential dangers and negative biological and ecological effects associated with the study and use of hazardous and toxic compounds and materials.	[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject		
	K7_U01	The student is able to analyze the problem defined in the diploma project and is able to prepare proposals for its solution/ realization, based on self-obtained and compiled information from literature, databases and other available sources (available mainly in English).	[SU2] Assessment of ability to analyse information		
	K7_K01	The student is able to analyze the state of knowledge and conduct a discussion with the teacher and colleagues.	[SK4] Assessment of communication skills, including language correctness [SK1] Assessment of group work skills		
	K7_W04	Student develops the ability to analyze information and interpret measurement data, can use the knowledge of materials to describe the relationship between the chemical composition, structure, and mechanical and physical properties.	[SW3] Assessment of knowledge contained in written work and projects		
	K7_W07	Preparing a diploma thesis Student acquires knowledge about development trends and the most important new achievements in the field of materials engineering, in particular in the subject of the implemented diploma project.	[SW1] Assessment of factual knowledge		
Subject contents	project supervisor.	elated to the selected topic of the diplo			
Prerequisites and co-requisites	Completed and passed all courses to	from semesters 1 and 2.			
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Realization of laboratory tasks related to the diploma project	100.0%	50.0%		
	Preparation and presentation of the MSc thesis	50.0%	50.0%		
Recommended reading	Basic literature	[1] Nicholas Walliman, Research Methods, The Basics, Taylor & Francis Group, London and New York, 2011 [2] Hugh G. Gauch Jr., Scientific Methods in Brief, Cambridge University Press, 2012 [3] Scientific literature and specialist reports related to the diploma project.			
	Supplementary literature [1] Guidelines for Authors of diploma thesis and diploma projects higher education studies at Gdańsk University of Technology writt polish and english. [2] Scientific literature and specialist reports related to the diploma project.				
	eResources addresses	Adresy na platformie eNauczanie:			

Data wydruku: 09.04.2024 11:06 Strona 2 z 3

Example issues/ example questions/ tasks being completed	Examples of topics of the diploma thesis: - Supramolecular (nano)polyurethane materials with self-healing or shape memory properties
	- The influence of graphene addition on the ability of protective coatings to absorb microwave radiation - Surgical meshes covered with a hydrogel layer showing a high degree of biocompatibility
Work placement	Not applicable

Data wydruku: 09.04.2024 11:06 Strona 3 z 3