

Subject card

Subject name and code	Nanotechnology in Medicine, PG_00040973								
Field of study	Biomedical Engineering, Biomedical Engineering, Biomedical Engineering								
Date of commencement of studies	October 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	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Solid S	> Faculty of Applied Physics and Mathematics							
Name and surname	Subject supervisor		prof. dr hab. inż. Bogusław Kusz						
of lecturer (lecturers)	Teachers		dr inż. Marta Prześniak-Welenc prof. dr hab. inż. Bogusław Kusz						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM		SUM		
	Number of study hours	of study 30		4.0		16.0		50	
Subject objectives	The goal is to broaden knowledge about the use of nanotechnology in medicine.								
Learning outcomes	Course out	come	Subject outcome				Method of verification		
	[K7_U52] can examine tissues, materials and biomaterials used in biomedical engineering		Student umie skorzystać z mikroskopii AFM i SEM w celu zbadania tkanek.			[SU3] Assessment of ability to use knowledge gained from the subject			
	[K7_U51] can conduct complex laboratory work connected with chemistry and biochemistry, specific to biomedical engineering		The student knows how to use the basic research methods in the field of research of living objects.			[SU2] Assessment of ability to analyse information			
	[K7_W02] Knows and understands, to an increased extent, selected laws of physics and physical phenomena, as well as methods and theories explaining the complex relationships between them, constituting advanced general knowledge in the field of technical sciences related to the field of study		The student knows some physical phenomena as well as methods and theories explaining the complex relationships between them.			[SW2] Assessment of knowledge contained in presentation			
Subject contents	Everything at the interface between nanotechnology and medicine								
Prerequisites and co-requisites	Basics of nanotechnology								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Lecture		51.0%		49.0%				
	Lab		51.0%						
Recommended reading	Basic literature	internet							
	Supplementary literature		internet						
	eResources addresses		Adresy na platformie eNauczanie:						

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	Nanotechnology in the treatment of cancer. Nanotechnology in regenerative medicine. Risks resulting from the use of nanotechnology
Work placement	Not applicable

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