

SDAŃSK UNIVERSITY 的 OF TECHNOLOGY

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	February 2023		Academic year of realisation of subject			2022/2023			
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	1		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit			> Faculty of Applied Physics and Mathematics						
Name and surname	Subject supervisor	prof. dr hab. inż. Bogusław Kusz							
of lecturer (lecturers)	Teachers		dr hab. inż. Jakub Karczewski						
			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 inclu	uded: 0.0							
Learning activity and number of study hours	Learning activity Participation in classes include plan					Self-study SUM			
	Number of study 30 hours			4.0		16.0		50	
Subject objectives	The goal is to broade	n knowledge a	bout the use of	nanotechnolo	gy in me	edicine.			
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_U51] can conduct complex laboratory work connected with chemistry and biochemistry, specific to biomedical engineering					[SU2] Assessment of ability to analyse information			
	[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_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					49.0%			
	Lab		51.0%			51.0%			
Recommended reading	Basic literature	internet							
6	Supplementary literature		internet						

	eResources addresses	Adresy na platformie eNauczanie: Nanotechnologia w Medycynie Moodle ID: 24442 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24442			
	Nanotechnology in the treatment of cancer. Nanotechnology in regenerative medicine. Risks resulting from the use of nanotechnology				
Work placement	Not applicable				