

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00066255								
Field of study	Mechanical and Medical Engineering								
Date of commencement of studies			Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group						
Mode of study	· · · · · · · · · · · · · · · · · · ·		Mode of delivery			at the	at the university		
Year of study	1		Language of instruction			Polish	Polish		
Semester of study	2		ECTS credits			7.0	7.0		
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Manufactu Technology	ials Technology -> Faculty of Mechanical Engineering and Ship							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Magdalena Jażdżewska						
	Teachers	dr inż. Magda	ska						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	/ Project		Seminar	SUM	
	Number of study hours	0.0	0.0	80.0	0.0	0.0		80	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	80		0.0		0.0		80	
Subject objectives	Getting to know the methods of producing surface layers and coatings on implants								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_W03] He/she knows methods, techniques and tools applied to solve engineering problems in the scope of the field of study of mechanical-medical engineering		The student has knowledge of techniques, tools and methods of testing coatings in the area of mechanical and medical engineering.			[SW1] Assessment of factual knowledge			
	[K7_W05] He/she has in-depth knowledge related to the methods and techniques used in medicine		The student has knowledge of specialized technical technologies and research methods of coatings used in medicine.			[SW3] Assessment of knowledge contained in written work and projects			
	[K7_W07] He/she in-depth knowledge related to engineering materials and technologies used in mechanical-medical engineering		properties and basic research			[SW1] Assessment of factual knowledge			
Subject contents	Safety at work in a biomaterials laboratory.Surface-modified materials for medical applications.Selected methods of implant modification.								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Report on the work performed.					100.0%			

Recommended reading	Basic literature	 Kula P.: Inżynieria warstwy wierzchniej. Wyd. Politechniki Łódzkiej, Łódź 2000. Burakowski T., Wierzchoń T.: Inżynieria powierzchni metali. WNT Warszawa 1995. 		
		 Kula P.: Inżynieria warstwy wierzchniej. Wyd. Politechniki Łódzkiej, Łódź 2000. Głowacka M., Łabanowski J.: Inżynieria Powierzchni Wybrane Zagadnienia, WPWSZ Elbląg 2014 		
	Supplementary literature	Current, English-language scientific publications on the surface modification of implants.		
	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed	estions/			
Work placement	Not applicable			

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