

GDAŃSK UNIVERSITY

Subject card

Subject name and code	Polymeric Biomaterials, PG_00039684							
Field of study				erials Engineer	ina			
	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	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 Polym	ers Technolog	y -> Faculty of	Chemistry		-		
Name and surname	Subject supervisor		dr hab. inż. Ju	ustyna Kucińsk	a-Lipka			
of lecturer (lecturers)	Teachers		dr hab. inż. Justyna Kucińska-Lipka					
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 i classes incluc plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		5.0		15.0		50
Subject objectives	The aim of the course	e is to familiariz	ze students with	n the types of p	olymeri	c bioma	iterials and the	eir application.
Learning outcomes	Course out	Subject outcome			Method of verification			
	к7_к02		biocompatibility, how to study it and what is important in the design of materials for medicine			[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice		
	К7_U06					[SU5] Assessment of ability to present the results of task		
	K7_W01		The student knows what polymeric biomaterials are and knows their division and importance in medicine			[SW1] Assessment of factual knowledge		
Subject contents	Classification of polymeric biomaterials based on their origin, Classification of polymer materials due to their use The use of polymeric biomaterials in dentistry Application of polymeric biomaterials in regenerative medicine Application of polymeric biomaterials in cardiac surgery The use of polymeric biomaterials in orthopedics							
		Basic knowledge of polymer chemistry,						
Prerequisites and co-requisites	Basic knowledge of p	olymer chemis	stry,					
	Basic knowledge of p			ing threshold		Per	centage of the	final grade
and co-requisites				ing threshold		Per 40.0%	centage of the	final grade

Recommended reading	Basic literature	Maria Cristina Tanzi Silvia Farè" Characterization of Polymeric Biomaterials" Elsevier 2017				
	Supplementary literature	Torbicz W. "Inżynieria biomedyczna" tom 4. Biomateriały PAN				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Designing a material that would sup	port the regeneration of cartilage				
Work placement	Not applicable					