

关。GDAŃSK UNIVERSITY 创 OF TECHNOLOGY

Subject card

Subject name and code	Exploration of memory using bioinformatics, PG_00062407								
Field of study	Biomedical Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group						
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			5.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Multimedia Systems		-> Faculty of El	ectronics, Tele	commu	nications and Informatics			
Name and surname	Subject supervisor		dr Michał Kucewicz						
of lecturer (lecturers)	Teachers		dr Michał Kuc	cewicz	-				
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	60.0		40.0	100	
	E-learning hours inclu	ided: 0.0		1		1			
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic ed in study	Participation i consultation h	n ours	Self-study		SUM	
	Number of study hours	100		0.0		0.0		100	
Subject objectives	The aim of the course is to introduce the topic of scientific research using bioinformatics to understand the mechanisms of human memory and to analyse the applicability of bioinformatics techniques to further stages of a research project.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems		Students will be able to find connections between psychological and biological aspects of human memory			[SU5] Assessment of ability to present the results of task			
	[K7_K82] is equipped to participate actively in lectures, seminars and laboratory classes conducted in foreign language		Students will improve their ability to present the effects of scientific information gathering in English			[SK5] Assessment of ability to solve problems that arise in practice			
	[K7_W51] Knows and understands, to an increased extent, selected aspects of chemistry and biochemistry constituting general knowledge in the field of biomedical engineering.		Student will understand the fundamentals of bioinformatics and its application to memory research			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Fundamentals of bioinformatics								
	Psychological and physiological aspects of memory								
	Analysis of the potential application of bioinformatics in memory research								
Prerequisites and co-requisites									
Assessment methods	Subject passing criteria		Passing threshold Percentage of the final grade						
and criteria			50.0%			100.0%			
Recommended reading	Basic literature	Foundations of human memory, Michael Jacob Kahana, Oxford University Press							
			Introduction to Bioinformatics, 5th Edition, Arthur Lesk (Author)						
	Supplementary literat	Applied Bioinformatics, Selzer Paul Maria Marhofer, Richard J. Koch Oliver							

	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed	Preparation of a systematic review of the literature related to bioinformatics in memory research and presentation of the findings at a research group meeting.			
Work placement	Not applicable			