GDAŃSK UNIVERSITY 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 Electronics, Telecommunications and Informatics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Michał Kucewicz	
	Teachers	dr Michał Kucewicz	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	60.0	40.0	100

E-learning hours included: 0.0

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	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 and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
	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 literature	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	