University of Gdańsk

Subject card

Subject name and code	Diploma Laboratory, PG_00193554						
Field of study	Bioinformatics						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2028/2029			
Education level	Bachelor's studies		Subject group	Obligatory subject group in the field of study Optional subject group			
Mode of study	full-time studies		Mode of delivery	at the university			
Year of study	3		Language of instruction	Polish			
Semester of study	6		ECTS credits	7.0			
Learning profile	academic		Assessment form	credit			
Conducting unit	Faculty of Mathematics, Physics and Informatics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. Cezary Czaplewski					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	90.0	0.0	0.0	90
	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	90		3.0	82.0	175	
Subject objectives	The aim of the education is to implement the project using methods and techniques from bioinformatics, to acquire the ability to effectively manage time, including in teamwork, to develop the ability to prepare extensive written studies, and to reinforce the habit of observing safety rules in the workplace.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOINL3_K02] Graduate thinks and acts entrepreneurially and responsibly, understands the need to popularize scientific achievements and their practical applications to society	The student is able to think and act in an entrepreneurial way, use the scientific method to accumulate knowledge, appreciate the importance of intellectual honesty in their own and others' actions, and is aware of ethical problems in the context of research integrity.	[SK8] observation of student's independent or team work
[BIOINL3_U04] Graduate effectively plans and organizes work independently and as part of a team	The student is able to work individually and in a team; is aware of responsibility for jointly performed tasks.	[SU8] observation of student's independent or team work
[BIOINL3_U03] Graduate applies mathematical and statistical methods to describe phenomena and analyze data; has the ability to perform data analysis in professional databases used in bioinformatics	The student is able to critically analyze the results of measurements, observations or theoretical calculations and assess the accuracy of the results.	[SU2] presentation/project/paper/ report
[BIOINL3_U02] Graduate is able to apply knowledge of natural sciences and science to formulate, analyze and solve problems related to bioinformatics	The student is able to plan and carry out simple experiments necessary for their thesis, using methods and ideas from various areas of bioinformatics and other exact and natural sciences	[SU2] presentation/project/paper/ report
[BIOINL3_U07] Graduate is able to prepare in a targeted manner a written study in Polish and/or English covering detailed issues in bioinformatics, using scientific and technical language, including specialized terminology and conceptual apparatus specific to bioinformatics	The student is able to find the necessary information in professional literature, both in databases and other sources, and is also able to recreate the line of reasoning or the course of an experiment described in the literature, taking into account the assumptions and approximations made.	[SU2] presentation/project/paper/ report

Subject contents

Application of acquired knowledge and skills in the field of bioinformatics to solve specific scientific or practical problems.

Conducting their own scientific or practical project.

Preparation of a longer written study in the form of a scientific work

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
project	51.0%	100.0%

Recommended reading

Basic literature	Literature determined by the instructor individually for each student participating in the classes
Supplementary literature	Literature recommended by teachers during classes.
eResources addresses	

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

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