University of Gdańsk

Subject card

Subject name and code	Information technologies, PG_00196809						
Field of study	Biology						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group 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	1		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Darya Harshkova				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	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	30		2.0		18.0	50
Subject objectives	1. Students acquire the ability to use basic computer programs used for creating and editing texts, working with data resources and presentation graphics. 2. Acquiring the ability to use Internet resources safely and effectively.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOLL3_W04] knows and understands at an advanced level the experimental methods and techniques used in biological sciences, as well as the principles of evaluation and analysis of natural processes and phenomena using physical and chemical measurements and IT tools for data processing and interpretation	The graduate knows and understands the principles of using IT tools for analysis data and interpretation of natural phenomena and processes.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/ report
[BIOLL3_U02] is able to use statistical methods, IT tools and data analysis techniques to describe biological phenomena, as well as synthesize information from various sources and formulate correct conclusions based on them	The graduate applies basic statistical methods, algorithms and IT techniques for the description of phenomena and analysis of biological data.	[SU2] presentation/project/paper/ report [SU4] test/exam - oral or written
[BIOLL3_K02] is ready to take care for her/his own safety and that of others, identifying threats and taking appropriate action, as well as use verified equipment and materials responsibly, ensuring their proper use	The graduate is responsible for the entrusted equipment/ materials and his/her own work respects the work of others.	[SK8] observation of student's independent or team work
[BIOLL3_W08] knows the principles of occupational health and safety, intellectual property protection and the basics of copyright law	The graduate knows and understands the basic concepts and principles of property protection industrial and copyright law; patent information resources.	[SW2] presentation/project/paper/ report

Subject contents

The subject program is consistent with the requirements of ECDL (European Certificate of Computer Skills) and extended to include issues of information technology achievements in biology. The issues discussed include the following: ergonomics when working with a computer; work in Windows; application and achievements of computer science and information technology in biology; basics of using internet tools; using the WORD text editor (formatting text, inserting objects, creating tables and charts); using an EXCEL spreadsheet (sheets, functions, tables, charts); managerial and presentation graphics - using computer programs in the processing and presentation of biological data; ability to use a computer safely - data security, copyright, ability to obtain information from Internet resources; searching biological databases; ability to use multimedia tools to create presentations.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
practical skills test	51.0%	60.0%
tasks on the on-line platform	51.0%	40.0%

Recommended reading

Basic literature	Agata Rzędowska, 2018, Mistrzowskie prezentacje : slajdowy poradnik mówcy doskonałego / Rzędowscy. wyd. Helion - Onepress, Gliwice Joan Lambert, Joyce Cox, 2013, Microsoft ® Word 2013: Krok po kroku. przekł: Maria Chaniewska. wyd. APN Promise, Warszawa Curtis.D.Frye, 2013, Microsoft® Excel® 2013 : krok po kroku. przekł: Leszek Biolik. wyd. APN Promise, Warszawa
Supplementary literature	not applicable
eResources addresses	

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

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