University of Gdańsk

Subject card

Subject name and code	Information technologies, PG_00129317		
Field of study	Biology		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
Education level	undergraduate 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	
Conducting unit	Faculty of Biology		
Name and surname of lecturer (lecturers)	Subject supervisor	mgr Darya Harshkova	
	Teachers	dr Małgorzata Kapusta mgr Martyna Zalewska mgr Darya Harshkova dr hab. Marian Sęktas dr Marcin Jąkalski	

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						
	Additional information: working with computers in the computer laboratory; tasks to be completed online; consultations						

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_W12] The graduate knows and understands the principles of using IT tools for data analysis and interpretation of natural phenomena and processes	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_U04] The graduate will be able to apply statistical methods and computer algorithms and techniques to the description of phenomena and the analysis of biological data	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_W11] The graduate knows the basic methods of statistical analysis and their importance in the interpretation of phenomena and processes	The graduate knows and understands the basic methods of statistical analysis and their importance in the interpretation of natural phenomena and processes.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/ report
[BIOLL3_K06] The graduate is prepared to take responsibility for the equipment/materials entrusted to them and for their own work and that of others	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_W18] The graduate knows and understands the concepts and principles of industrial property protection and copyright; patent information resources	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	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

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