

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	<p>1. Students acquire the ability to use basic computer programs used for creating and editing texts, working with data resources and presentation graphics.</p> <p>2. Acquiring the ability to use Internet resources safely and effectively.</p>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOLL3_K06] The graduate is prepared to take responsibility for the entrusted equipment/materials and for his/her own work and the work 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_U04] The graduate is 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_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
	[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_W11] The graduate knows and understands at an advanced level the 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	
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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