



## Subject card

Subject name and code	INFORMATION TECHNOLOGY, PG_00064371						
Field of study	Chemistry						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	first-cycle 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			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Physical Chemistry -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Dorota Warmińska					
	Teachers	dr inż. Joanna Grabowska Michał Jurkowski Michał Olewniczak					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	15.0	0.0	0.0	15
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	15	2.0		8.0		25
Subject objectives	The course aims to develop students' basic skills related to modern personal computer software in the field of calculations and text editing. Moreover, the course aims to develop the student's ability to use a computer to obtain and process information.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_K03] is aware of the importance of caring for the quality and diligence of the tasks performed, being responsible for their consequences	The student is aware of responsibility for the tasks he receives and cares about the quality of their results.			[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work		
Subject contents	[K6_U01] gathers information from literature, databases and other sources, interpreting, critically evaluating, summarising, formulating and justifying opinions, independently analyses and produces technical drawings with the use of computer assistance	The student has the ability to search and analyze information and is able to prepare and present a project presentation using appropriately selected computer programs.			[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task		
	Using the Word text editor to prepare a short chemical study, including the ability to write mathematical formulas, prepare tabular summaries and structural formulas of chemical compounds, for example using the Biovia Draw program. Using an Excel spreadsheet for chemical calculations and data presentation: basic calculations in a spreadsheet, action priorities, use of built-in functions, logical functions. Ways of addressing cells and their consequences. Data import. Preparing charts: presentation of relationships described by formulas and tabular data, chart formatting, trend lines. The ability to find information on a given topic on the Internet and present them in the form of a PowerPoint presentation.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	tests during the semester	50.0%			100.0%		
Recommended reading	Basic literature	1. W. Sikorski, Podstawy technik informacyjnych, PWN 2004 2. D. Hawley, R. Hawley, 100 sposobów na Excel 2007 PL. Tworzenie funkcjonalnych arkuszy, Helion, Warszawa					

	Supplementary literature	1. J.B. Czerwiński i inni, Metody statystyczne dla chemików PWN 1986
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	1) Editing the text based on defined formatting requirements using advanced formatting functions. 2) Prepare charts describing the relationships between various variables using the most optimal trend lines. 3) Make a presentation on the topic proposed by the teacher, using information obtained from the resources of the GUT Main Library	
Work placement	Not applicable	

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