

Subject card

Subject name and code	Information technology, PG_00082088						
Field of study	Chemistry						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	full-time studies		Mode of delivery		e-learning		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Theoretical Chemistry -> Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Magdalena Ślusarz				
	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: 30.0						
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		5.0		15.0	50
Subject objectives	- To familiarize students with the following UG portals: eUczelnia, Educational Portal and UG Knowledge Base. - To familiarize students with an email account, cloud files and searching for information in the WWW resources - Introducing basic tools for: data analysis, text edition and graphical representation of data, editing raster and vector graphics and creating scientific multimedia presentations - To familiarize students with creating and editing websites - Introducing programs for molecules visualization and drawing of chemical reactions						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[CHEML3_W09] Describes the practical applications of IT tools (computer programmes) for chemical calculations and data analysis.	Knows the basic tools for text editing, analyzing experimental data, drawing graphs and visualizing chemical molecules.	[SW1] oral statement/ conversation/discussion
	[CHEML3_U07] Prepares documented elaboration on a specific problem in the field of selected chemical and physical issues.	Creates multimedia presentations on a given topic.	[SU2] presentation/project/paper/ report
	[CHEML3_U06] Uses basic application software packages to solve problems from the field of science.	Creates files and directories; searches Internet resources to find the information; draws structures of chemical compounds; draws mathematical functions to illustrate scientific relationships and performs image editing.	[SU5] implementation of a problem task [SU6] demonstration of practical skills
	[CHEML3_K01] Identifies the level of her/his own knowledge and skills and the need for continuous learning and personal development.	Demonstrates responsibility for the equipment entrusted to him; understands the need for further learning.	[SK8] observation of student's independent or team work
Subject contents	Subject matter: accounts, passwords, safety; using WWW resources (e-mail, web browsers, UG Student Portal, UG EducationalPortal, UG Knowledge Base); office suite word processor, spreadsheet and charts, presentations; tools for drawing and visualization of the molecule structures; graphics editing (both raster and vector); creating web pages.		
Prerequisites and co-requisites	None		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Obtaining the required percentage value take from the average of the partial grades received during the semester.	51.0%	100.0%
Recommended reading	Basic literature	None	
	Supplementary literature	None	
	eResources addresses		
Example issues/ example questions/ tasks being completed	• Making a graph of concentration-time dependence during the course of a chemical reaction. • Constructing the structure of a neurohypophyseal hormone molecule. • Creating a website about laboratory glassware.		
Work placement	Not applicable		

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