

Subject card

Subject name and code	Information technology, PG_00103631						
Field of study	Environmental Protection						
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		at the university		
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: 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		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
	[OŚL3_W03] Operates mathematical, statistical and IT methods and tools in the description and interpretation of phenomena and processes occurring in the environment.	Knows the basic tools for text editing, analyzing experimental data, drawing graphs and visualizing chemical molecules.	[SW1] oral statement/ conversation/discussion [SW5] implementation of a problem task
	[OŚL3_K02] Works individually demonstrating initiative and independence in actions, and effectively cooperates in a team, performing various roles in it.	Independently performs the tasks using the tools and programs he has learned.	[SK8] observation of student's independent or team work
	[OŚL3_U11] Uses statistical methods as well as algorithms and IT techniques, including application software packages to describe environmental experiments and analysis of typical data in socio-economic activities based on science and natural sciences.	Creates files and directories; builds structures of chemical compounds; makes graphs of mathematical functions showing relationships based on experimental data; performs image editing.	[SU5] implementation of a problem task [SU6] demonstration of practical skills
	[OŚL3_K08] Is responsible for and takes care of the specialist equipment entrusted to her/him for research and laboratory or field work.	Demonstrates responsibility for entrusted equipment in the computer lab.	[SK8] observation of student's independent or team work
	[OŚL3_W02] Characterises the relationships and relationships between various disciplines of natural sciences and science, uses knowledge of mathematics, physics, chemistry and biology in the description of basic concepts, concepts and principles in environmental protection.	Student knows how to use the internet resources and online chemical databases to find necessary scientific informations.	[SW1] oral statement/ conversation/discussion
Subject contents	None		
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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