

## § GDAŃSK UNIVERSITY § OF TECHNOLOGY

## Subject card

Subject name and code	Information technologies, PG_00060836								
Field of study	Chemical Technology								
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			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Physical Chemistry -> Faculty of Chemistry								
Name and surname	Subject supervisor		dr hab. inż. Adam Kloskowski						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	15.0	5.0 0.0		0.0	15	
	E-learning hours inclu								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-st	tudy	SUM	
	Number of study hours	15		5.0		30.0		50	
Subject objectives	The aim of the course is also for the student to acquire the ability to use information technology tools to support his/her learning and work organization. During the classes, the basics of IT techniques, text processing, spreadsheets and tools dedicated to chemical sciences will be presented								
Learning outcomes	Course outcome Subject outcome Method of verification								
	[K6_K05] is aware of the social role of a technical university graduate, and in particular understands the need to formulate and communicate to the public, in particular through the mass media, information and opinions on the achievements of technology and other aspects of engineering activity		present a project presentation using appropriately selected computer programs. The student has the ability to analyze			[SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work			
	[K6_W06] has knowledge of information technology and computer-aided design, the use of databases in technological design		After completing the course, the student should: 1) be fluent in using advanced functions of MS Office programs (Word, Excel). 2) Use a spreadsheet to solve data analysis problems.			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	The program content is implemented in the form of laboratory classes The laboratory program is divided into three thematic blocks:								
	BLOCK 1. Creating documents using MS Word, editing mathematical formulas,								
	BLOCK 2. Support for chemical formula editors (ISIS, Biovia Draw)								
	BLOCK 3. Using the MS Excel spreadsheet for chemical calculations and data analysis and presentation								

Prerequisites and co-requisites						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	test	50.0%	100.0%			
Recommended reading	Basic literature	W. Sikorski : Podstawy technik informacyjnych , PWN 2004 D. Hawley, R. Hawley, 100 sposobów na Excel 2007 PL. Tworzenie funkcjonalnych arkuszy, Helion, Warszawa 2008				
	Supplementary literature	Supplementary literature J. Czermiński i inni, Metody statystyczne dla chemików, PWN, Warszawa 1986				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30198					
Work placement	Not applicable					