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 2026	Academic year of realisation of subject	2026/2027
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 -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Adam Kloskowski	
	Teachers		

Lesson types

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	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_W01] Possesses knowledge of mathematics and physics necessary to analyze and describe technological processes, including differential and integral calculus, numerical methods, statistics and elements of vector analysis.	The student knows numerical methods used to solve differential equations and analyze experimental data, as well as basic statistical tools used to interpret measurement results and assess measurement uncertainty.	[SW1] Assessment of factual knowledge
[K6_W05] Has knowledge of electrical engineering, automation and computer science, including the operation of measurement and control systems	Understands basic computer science concepts, including computer architecture, operating systems, and programming basics. Able to analyze and interpret measurement data using IT tools.	[SW3] Assessment of knowledge contained in written work and projects

Subject contents

Course content – laboratory
The curriculum is delivered through laboratory classes.

The laboratory program is divided into three thematic blocks:

BLOCK 1. Creating documents with MS Word, editing mathematical formulas, BLOCK 2. Using chemical formula editors (ISIS, Biovia Draw) BLOCK 3. Using MS Excel spreadsheets 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	J. Czermiński i inni, Metody statystyczne dla chemików, PWN, Warszawa 1986
	eResources addresses	
Example issues/ example questions/ tasks being completed	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30198	
Practical activites within the subject	Not applicable	

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