



## Subject card

Subject name and code	Laboratory Practice, PG_00060835						
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 Inorganic Chemistry -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Andrzej Okuniewski				
	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		3.0		17.0	50
Subject objectives	The aim of the course is to familiarise students with basic laboratory equipment and work techniques used in chemical laboratories - especially in the field of inorganic, physical and organic chemistry.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_U02] Performs design calculations of technological processes, selects industrial equipment, operates laboratory equipment and conducts material analyses	The student is able to use basic laboratory equipment, among others, to prepare solutions, perform distillation and crystallization, as well as perform qualitative and quantitative analysis. Is able to measure the pH and temperature of a solution, perform basic calculations, balance chemical reactions and collect the results in the form of a report.			[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task		
	[K6_K02] is aware of the responsibility for his/her work and is ready to work in a team and share responsibility for common tasks.	The student feels comfortable working in small teams whose members jointly perform experiments, analyze results, and prepare reports.			[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	Course content – laboratory Laboratory classes are held in three departments and include:  <b>Department of Inorganic Chemistry:</b> Basic laboratory tasks. Solution pH. Redox reactions. Qualitative analysis of selected metal cations.  <b>Department of Physical Chemistry:</b> Solution preparation. Volumetry, titration. Temperature measurement, elements of electrochemistry.  <b>Department of Organic Chemistry:</b> Distillation. Extraction. Crystallization.						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	DOCh laboratory	60.0%	33.0%
	DPCh laboratory	60.0%	33.0%
	DICh laboratory	60.0%	34.0%
Recommended reading	Basic literature	Materials available on the eNauczenie platform.  A. Okuniewski, A. Mielarek-Kropidłowska: Techniki laboratoryjne. Materiał obowiązujący na zajęciach realizowanych w Katedrze Chemii Nieorganicznej.  K. Dzierzbicka, G. Cholewiński, J. Rachoń: Tajemnice i sekrety laboratorium chemii organicznej, Wyd. PG.	
	Supplementary literature	N. Bellen, A. Gutorska: Poradnik laboranta chemika. WNT, Warszawa 1985.  A. I. Vogel: Preparatyka Organiczna, WNT, Warszawa 2006.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Sample questions can be found in the materials available on the eNauczenie platform.		
Practical activities within the subject	Not applicable		

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