

Subject card

Subject name and code	Diploma laboratories,	PG_0004761	5					
Field of study	Chemistry							
Date of commencement of studies	February 2024		Academic y realisation			2024/	2025	
Education level	second-cycle studies		Subject gro	oup				
Mode of study	Full-time studies		Mode of de	livery		at the	university	
Year of study	2		Language	of instruction	ı	Polish		
Semester of study	3		ECTS cred	its		5.0		
Learning profile	general academic pro	ofile	Assessmer	nt form		assess	sment	
Conducting unit	Department of Inorga	nic Chemistry	-> Faculty of Cl	hemistry -> Wy	działy F	olitech	niki Gdańskie	ej
Name and surname	Subject supervisor		prof. dr hab. ir	nż. Anna Dołęg	а			
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	0.0	0.0	75.0	0.0		0.0	75
	E-learning hours inclu	uded: 0.0						
Learning activity and number of study hours	Learning activity	Participation i classes includ plan		Participation in consultation h		Self-st	udy	SUM
	Number of study hours	75		10.0		40.0		125
Subject objectives	The aim of the course including: improving the ab developing skills fostering the abil enhancing comp	ility to practical in planning an ity to work both	lly apply chemic d conducting ex n individually ar umenting and p	cal methods an experiments and in a team in the presenting rese	d analy I analyz the labo	ing resu	chniques, ults,	
	enhancing comp principles of scie				arch ou	tcomes	in accordan	ce with

The student possesses structured and advanced knowledge of modern chemistry, including the properties and synthesis of chemical compounds and the relationship between a compound's structure and its reactivity. The student knows the analytical methods and techniques used in chemical alboratories, including spectroscopy and chromatography, as well as principles of safe laboratory practice. The student understands the significance of experimental results in the context of technical and scientific problems K7_U01 The student is able to obtain information from specialist literature and databases (including in English), integrate, interpret, critically evaluate it, and draw conclusions. K7_U02 The student is able to an advance of experimental results in the context of technical and databases (including in English), integrate, interpret, critically evaluate it, and draw conclusions. K7_U02 The student is able to an advance of experiments in the student is able to use laboratory techniques, including infrared spectroscopy, for the analysis of chemical compounds. The student is able to use conclusions, and prepare reports and presentations of research findings in accordance with scientific communication principles. K7_K01 The student understands the need for illefong learning and is able to inspire and support the learning process of others in a scientific environment.
information from specialist literature and databases (including in English), integrate, interpret, critically evaluate it, and draw conclusions. K7_U02 K7_U02 Integrate, interpret, critically evaluate it, and draw conclusions. K7_U02 Integrate it, and draw conclusions. Integrate it is able to independently plan, conduct, and document chemical experiments. The student is able to use laboratory techniques, including infrared spectroscopy, for the analysis of chemical compounds. The student is able to analyze experimental results, draw conclusions, and prepare reports and presentations of research findings in accordance with scientific communication principles. K7_K01 The student understands the need for lifelong learning and is able to inspire and support the learning process of others in a scientific environment.
independently plan, conduct, and document chemical experiments. The student is able to use laboratory techniques, including infrared spectroscopy, for the analysis of chemical compounds. The student is able to analyze experimental results, draw conclusions, and prepare reports and presentations of research findings in accordance with scientific communication principles. K7_K01 The student understands the need for lifelong learning and is able to inspire and support the learning process of others in a scientific environment. present the results of task
for lifelong learning and is able to inspire and support the learning process of others in a scientific environment.
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Subject contents Will be determined during the course of the subject (synthesis of gold complex compounds).
Prerequisites and co-requisites
Assessment methods Subject passing criteria Passing threshold Percentage of the final grade
and criteria evaluation of the report 50.0% 100.0%
Recommended reading Basic literature Barberá, Joaquín, et al. "(Pyrazolato) gold complexes showing room-temperature columnar mesophases. Synthesis, properties, and structural characterization." <i>Inorganic Chemistry</i> 37.12 (1998): 2960-2967.
Supplementary literature Mota, Vinicius Zamprogno, et al. "Gold complexes with benzimidazole derivatives: synthesis, characterization and biological studies." Biometals 27.1 (2014): 183-194.
eResources addresses
Example issues/ example questions/ tasks being completed
Work placement Not applicable

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