GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Master's thesis, PG_00048940						
Field of study	Chemistry						
Date of commencement of studies	February 2024		Academic year of realisation of subject	2024/2025			
Education level	second-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery	at the university			
Year of study	2		Language of instruction	Polish			
Semester of study	3		ECTS credits	20.0			
Learning profile	general academic profile		Assessment form	assessment			
Conducting unit	Department of Inorganic Chemistry -> Faculty of Chemistry -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Anna Dołęga				
	Teachers						

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	0.0	0
	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	0	30.0	470.0	500

Subject objectives

Course Objective

The aim of the course is to prepare the student for the independent completion of a research project of a scientific or application-oriented nature, including:

- deepening knowledge and skills in the field of chemistry and/or chemical engineering,
- applying acquired knowledge to solve a defined research or technological problem,
- developing the ability to plan and conduct research, as well as to interpret and critically analyze obtained results,
- shaping competences in written and oral presentation of research outcomes in accordance with the principles of scientific communication and academic ethics.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K7_W02	The student possesses structured and advanced knowledge related to modern chemistry, including the properties and synthesis of chemical compounds, necessary for performing calculations and solving technical problems, encompassing the relationship between the structure of a compound and its reactivity.	[SW3] Assessment of knowledge contained in written work and projects
K7_U01	The student is able to obtain information from specialist literature, databases, and other sources, including those in English; is able to integrate the acquired information, interpret and critically evaluate it, as well as draw conclusions and formulate and justify opinions.	[SU2] Assessment of ability to analyse information
K7_U03	The student is able to work both individually and as part of a team while carrying out research tasks within the diploma laboratory. The student is able to assess the time requirements of assigned tasks and manage a small team in a way that ensures the completion of work within the planned deadline.	[SU1] Assessment of task fulfilment
K7_W03	The student uses infrared spectroscopy for the analysis of organic compounds.	[SW3] Assessment of knowledge contained in written work and projects
K7_K01	The student understands the need for lifelong learning and is able to independently expand and update their knowledge in the field of chemistry and related sciences. The student is able to inspire and organize the learning process of other people, including sharing the knowledge and experience gained during the preparation of the master's thesis.	[SK4] Assessment of communication skills, including language correctness

Subject contents

Will be presented by the Tutor during classes.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
diploma	50.0%	100.0%

Recommended reading

Basic literature	Glišić, Biljana Đ., and Miloš I. Djuran. "Gold complexes as antimicrobial agents: an overview of different biological activities in relation to the oxidation state of the gold ion and the ligand structure." *Dalton Transactions* 43.16 (2014): 5950-5969.
Supplementary literature	Stevanović, Nevena Lj, et al. "Clinically used antifungal azoles as ligands for gold (iii) complexes: The influence of the Au (iii) ion on the antimicrobial activity of the complex." *Dalton Transactions* 51.13 (2022): 5322-5334.
eResources addresses	

Example issues/ example questions/ tasks being completed

None

Work placement

Not applicable

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