

## Subject card

Subject name and code	Organic chemistry, PG_00146885						
Field of study	Genetics and Experimental Biology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	undergraduate 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 polish		
Semester of study	2	ECTS credits			3.0		
Learning profile	academic	Assessment form					
Conducting unit	Pracownia Chemii Cukrów -> Katedra Chemii Organicznej -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Janusz Madaj				
	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		8.0		37.0	75
Subject objectives	presenting students with basic issues regarding organic chemistry familiarizing students with the basic types of organic compounds and their basic biological role learning the basics of independently conducting chemical experiments						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GBEL3_W09] principles of safety and hygiene, as well as ergonomics in the workplace.	written works, final tests (the student knows laboratory techniques and the principles of using research equipment and the basics of its operation)	[SW5] implementation of a problem task
	[GBEL3_K02] Critical assessment of one's own knowledge and methods in the field of molecular biology and related disciplines, as well as the commercialization of research.	observation and assessment of the student's skills (the student can correctly choose the level of tasks in the context of your skills, excellent organizes and manages group work, perfectly organizes the workstation, observing the sequence of procedures performed)	[SK5] implementation of a problem task
	[GBEL3_U03] Proficient in using research equipment and tools, while following the correct sequence of procedures, to conduct basic physical, biological, or chemical observations and measurements in laboratory work within the field of biological sciences.	final tests, conducting an experiment, research report laboratory (the student is able to carry out experiments related to the synthesis of organic compounds, correctly selecting experimental techniques and equipment, correctly documenting the results of his work using the current nomenclature, is able to apply the knowledge acquired outside classes and exercise instructions to plan subsequent experiments)	[SU5] implementation of a problem task
	[GBEL3_U01] Independently perform practical tasks in the field of biological sciences and related disciplines, formulate research problems, analyze their results, and draw conclusions.	final tests, conducting an experiment, research report laboratory (the student is able to carry out experiments related to the synthesis of organic compounds, correctly selecting experimental techniques and equipment, correctly documenting the results of his work using the current nomenclature, is able to apply the knowledge acquired outside classes and exercise instructions to plan subsequent experiments)	[SU5] implementation of a problem task
	[GBEL3_K07] Lifelong learning and updating knowledge in the field of molecular genetics and other disciplines.	observation and assessment of the student's skills (the student can correctly choose the level of tasks in the context of your skills, excellent organizes and manages group work, perfectly organizes the workstation, observing the sequence of procedures performed)	[SK5] implementation of a problem task
	[GBEL3_W02] Knowledge of mathematics, physics, and chemistry is necessary for understanding biological phenomena and processes, as well as their application in research methodology.	written works, final tests (the student knows laboratory techniques and the principles of using research equipment and the basics of its operation)	[SW5] implementation of a problem task
	[GBEL3_K05] Responsibility for the safety of one's own work and others.	observation and assessment of the student's skills (the student can correctly choose the level of tasks in the context of your skills, excellent organizes and manages group work, perfectly organizes the workstation, observing the sequence of procedures performed)	[SK5] implementation of a problem task
	[GBEL3_K08] Responsibility for entrusted equipment/materials and respect for the work of others.	observation and assessment of the student's skills (the student can correctly choose the level of tasks in the context of your skills, excellent organizes and manages group work, perfectly organizes the workstation, observing the sequence of procedures performed)	[SK5] implementation of a problem task

Subject contents	Issues of laboratory exercises: basics of laboratory work, performing several exercises/experiments thematically related to the lecture program.		
Prerequisites and co-requisites	Basic knowledge of general chemistry		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Pass with grade	51.0%	100.0%
Recommended reading	Basic literature	Organic Chemistry, 4th Edition, Paula Yurkanis Bruice Organic Chemistry, 5th Edition, L. G. Wade General, Organic, and Biological Chemistry, 5th Edition, H. Stephen Stoker Morrison R., Boyd R. 1999. Chemia organiczna. PWN, Warszawa. McMurry John, 2005. Chemia organiczna, Wydawnictwo Naukowe PWN Kupryszewski G., Sobocińska M., Walczyna R. 1988. Podstawy preparatyki związków organicznych. Wyd. Gdańskie, Gdańsk. Walczyna R., Sokołowski J., Kupryszewski G. 1996. Analiza związków organicznych. Wyd. UG, Gdańsk.	
	Supplementary literature	non	
	eResources addresses	Adresy na platformie eNauczenie:	
Example issues/ example questions/ tasks being completed	Consistent with the content of classes.		
Work placement	Not applicable		

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