

Subject card

Subject name and code	Organic chemistry, PG_00154234						
Field of study	Medical 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		6.0		39.0	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 introducing students to the basics of spectroscopy learning the basics of independently conducting chemical experiments						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOLMEDL3_K05] jest odpowiedzialny za bezpieczeństwo pracy własnej i innych oraz potrafi rozpoznać sytuacje zagrożenia i podjąć odpowiednie działania	observation and assessment of the student's skills (the student is able to correctly select the level of tasks in the context of his/her own skills, perfectly organizes and manages group work, perfectly organizes the workstation, following the sequence of procedures performed)	[SK5] implementation of a problem task
	[BIOLMEDL3_W09] identifies the tools of mathematics necessary to understand the laws of nature and to describe the processes of life	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
	[BIOLMEDL3_W10] understands and describes the physicochemical and biological basis of health sciences	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
	[BIOLMEDL3_W15] describes the principles of evaluating processes and phenomena occurring in a living organism, using physical or chemical measurements	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
	[BIOLMEDL3_K03] is aware of his/her own limitations and knows when to seek expert assistance	observation and assessment of the student's skills (the student is able to correctly select the level of tasks in the context of his/her own skills, perfectly organizes and manages group work, perfectly organizes the workstation, following the sequence of procedures performed)	[SK5] implementation of a problem task
	[BIOLMEDL3_K01] understands the need for lifelong learning and to update his/her knowledge of medical biology and related disciplines	observation and assessment of the student's skills (the student is able to correctly select the level of tasks in the context of his/her own skills, perfectly organizes and manages group work, perfectly organizes the workstation, following the sequence of procedures performed)	[SK5] implementation of a problem task
	[BIOLMEDL3_U12] has the ability to present his own ideas and adequate argumentation in the context of selected theoretical and practical perspectives of medical biology	final tests, conducting an experiment, report on laboratory tests (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, can apply knowledge acquired outside classes and exercise instructions to plan subsequent exercises experiments)	[SU5] implementation of a problem task
	[BIOLMEDL3_U05] synthesises data from different sources and draws appropriate conclusions from them	final tests, conducting an experiment, report on laboratory tests (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, can apply knowledge acquired outside classes and exercise instructions to plan subsequent exercises experiments)	[SU5] implementation of a problem task

	Course outcome	Subject outcome	Method of verification
	[BIOLMEDL3_U01] uses basic apparatus and research tools and, maintaining the correct sequence of operations, performs simple physical, biological or chemical observations and measurements in laboratory work in the biological or medical sciences	final tests, conducting an experiment, report on laboratory tests (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, can apply knowledge acquired outside classes and exercise instructions to plan subsequent exercises experiments)	[SU5] implementation of a problem task
	[BIOLMEDL3_W18] knows the basic principles of occupational health and safety and ergonomics	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
Subject contents	Issues of laboratory exercises: basics of laboratory work, performing several exercises/experiments thematically related to the above mentioned lecture program		
Prerequisites and co-requisites	Basic knowledge of general and analytical chemistry		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	conducting planned chemical experiments	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, 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 eNauczanie:	
Example issues/ example questions/ tasks being completed	Consistent with the content of classes		
Work placement	Not applicable		

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