

Subject card

Subject name and code	Allergies – What You Should Know, PG_00170446						
Field of study	Chemical Business, Chemistry						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2028/2029		
Education level	Bachelor's studies		Subject group		Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Carbohydrate Chemistry -> Department of Organic Chemistry -> Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Justyna Samaszko-Fiertek				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	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		10.0		20.0	60
Subject objectives	Educating students with the terminology, history of allergology, allergy as a pathomechanism and mechanisms of allergy development. Presentation of factors influencing the occurrence of allergies (genetic and environmental). Exposure to allergens and the effect of air pollution on the occurrence of disease symptoms. Structure and chemical composition of pollen grains. Seasonality of pollen occurrence in the air. Practical importance of pollen in allergology and the natural environment.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[CHEML3_U09] Is able to learn independently.		The student is able to independently acquire and analyze knowledge in the field of allergology, using various sources of information, such as professional literature, scientific research and online materials. He shows initiative in expanding his knowledge, skills and competences, and effectively uses critical thinking and reflection in the learning process.		[SU1] oral statement/conversation/discussion		
	[CHEML3_W05] Has basic knowledge of the chemical specialisation studied.		Based on the acquired knowledge, correctly uses the terminology used in allergology and is able to determine the chemical structure of allergens.		[SW4] test/exam - oral or written		
	[CHEML3_K01] Identifies the level of her/his own knowledge and skills and the need for continuous learning and personal development.		Understands the importance of current research and new developments in allergy and their impact on clinical practice and everyday life.		[SK1] oral statement/conversation/discussion		
Subject contents	1. Allergology introduction to basic definitions such as allergen, epitope, atopy, antigen, hypersensitivity, intolerance, IgE antibodies, basic clinical symptoms, 2. Mechanisms of allergic reactions. 3. IgE-dependent allergic diseases: development of allergy, early and late phase of allergic reaction. 4. Allergic diseases, including inhalant allergy, rhinoconjunctivitis, bronchial asthma, atopic dermatitis, urticaria and angioedema, food allergy and anaphylactic reactions. 5. Most common allergens. 6. Diagnostics of allergic diseases. 7. Prevention of allergic diseases. 8. Allergy and occupational diseases.						

Prerequisites and co-requisites	Knowledge of organic chemistry and biochemistry.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		51.0%	100.0%
Recommended reading	Basic literature	A. Literature required for final crediting of classes (passing the exam):A. 1.1. D. Mylek, "Oswoić alergię", Warsaw, 2018. W. Droszcz, "Alergia", Warsaw, Państwowe Wydawnictwo Naukowe, 1966.3. R. Pawliczak, "Choroby alergiczne", Gdańsk, Wydawnictwo AsteriaMed, 2019.	
	Supplementary literature	1. K. Mumby, "Allergies...what everyone should know", London, Unwin Paperbacks, 1986	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Pollen allergy (pollinosis) Pollen allergy is one of the most common forms of allergy, associated with the body's hypersensitivity to plant pollens that float in the air at certain times of the year. This phenomenon is seasonal, and allergy symptoms usually appear in the spring and summer periods, when plants are in bloom. Discuss the factors that affect the severity of allergy symptoms.		
Work placement	Not applicable		

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