

Subject card

Subject name and code	Basics of epidemiology, PG_00147156						
Field of study	Genetics and Experimental Biology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	undergraduate studies	Subject group			Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish polish		
Semester of study	4	ECTS credits			1.0		
Learning profile	academic	Assessment form					
Conducting unit	Katedra Biochemii Ogólnej i Medycznej -> Faculty of Biology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Dorota Gregorowicz-Warpas				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		2.0		8.0	25
Subject objectives	The aim of the course is to familiarize students with basic issues in epidemiology and infectious diseases.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[GBEL3_W09] principles of safety and hygiene, as well as ergonomics in the workplace.	The student is able to determine the basic principles of occupational health and safety and work ergonomics			[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report		
	[GBEL3_U02] Utilize computer programs for performing analyses and calculations, as well as utilize databases and bioinformatics tools to solve biological problems.	The student is able to use computer programs to perform analyzes and calculations and use databases and bioinformatics tools to solve biological problems.			[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU4] test/exam - oral or written		
	[GBEL3_U04] Capable of reading scientific texts in English and Polish with comprehension, synthesizing the knowledge contained within them, preparing well-documented studies on biological issues, as well as those related to research commercialization.	The student is able to read and understand scientific texts in English and Polish, synthesizes the knowledge contained therein, prepares well-documented studies of biological problems and those related to the commercialization of research.			[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU4] test/exam - oral or written		
	[GBEL3_U06] Prepare and deliver oral presentations in Polish and English on specific topics within the field of biology, as well as present ideas and results in written and oral form.	The student has the ability to give oral presentations in Polish and English on specific issues in the field of biology and to present his or her ideas and results			[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU4] test/exam - oral or written		
	[GBEL3_K07] Lifelong learning and updating knowledge in the field of molecular genetics and other disciplines.	The student understands the need for lifelong learning and updating knowledge in the field of molecular genetics and other fields			[SK8] observation of student's independent or team work		

Subject contents	<p>1. Introduction to epidemiology classes. Definition, goals, tasks, division and applications of epidemiology. The development of epidemiology and the modern concept of the field.</p> <p>2. General and specific epidemiology. Epidemiology and clinical medicine.</p> <p>3. The role of epidemiology in describing the health status of populations, tracing the natural history of diseases, identifying the causative factors of health disorders, and evaluating clinical and population interventions.</p> <p>4. Methodology of epidemiological research. Demographic phenomena. Health metrics.</p> <p>5. Elements of epidemiological statistics. Principles of epidemiological analysis and planning of epidemiological studies.</p> <p>6. Environmental epidemiology. Types of epidemiological studies. Causal inference. Risk measures and risk assessment methods. Standardization.</p> <p>7. Clinical and social epidemiology. New applications of epidemiology (genetic and molecular epidemiology).</p> <p>8. Application of epidemiology in planning and assessing the effectiveness of population-based preventive programs.</p> <p>9. Epidemiology of non-communicable diseases in the world and in Poland. Environmental factors and the epidemiology of infectious and non-communicable diseases. Socially important non-communicable diseases.</p> <p>10. Lifestyle diseases.</p> <p>11. Principles of investigating an infectious disease outbreak.</p> <p>12. Elderly health problems and problems disability.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	final test	51.0%	100.0%
Recommended reading	Basic literature	<p>1. Paradowska- Stankiewicz I., Rosińska M., Wojtyniak B., Zieliński A.: Epidemiology from theory to practice, PZWL, Warsaw 20212. Webb P., Bain C., Page E.: Epidemiologia, Ed. Scholar, Warsaw 20213. Boroń-Kaczmarek A., Wiercińska- Drapała A.: Infectious and parasitic diseases, PZWL, Warsaw 20194. Bulanda M., Wójkowska-Mach J.: Nosocomial infections in health care units, PZWL, Warsaw 20165. Cianciara J., Juszczyk J.: Infectious and parasitic diseases, Volume I, II, Ed. II, Czelej, Lublin 20126. Denys A.: Hospital infections. Selected issues, ABC and Wolters Kluwer business, Warsaw 20127. Denys A.: Hospital infections in selected departments, Vol. II, ABC and Wolters Kluwer business, Warsaw 20138. Dziubek Z.: Infectious and parasitic diseases, Ed. II, PZWL, Warsaw 20109. J., Gębska-Kuczerowska A.: Epidemiology in public health, PZWL, Warsaw 201010. Pawińska A.: Prevention of nosocomial infections - safety of the hospital environment, Ed. -medica press, Warsaw 201111. Sygit M.: Public health, Ed. Wolters Kluwer Polska 201012. Dzierżanowska D.: Hospital Infections, Ed. -medica press, Bielsko-Biała 2008</p>	

	Supplementary literature	1. Jabłoński L., Karwat I.D.: Basics of general epidemiology, epidemiology of infectious diseases, Ed. Czelej, Lublin 2002
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Final work in the form of a multimedia presentation, final test. In case of failure to pass the final test - oral examination.	
Work placement	Not applicable	

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