

Subject card

Subject name and code	Metabolism - clinical aspects, PG_00154543						
Field of study	Medical Biology						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2027/2028		
Education level	Bachelor's studies	Subject group			Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study		
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			1.0		
Learning profile	academic	Assessment form			exam		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Dorota Żurawa-Janicka				
	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	Expanding knowledge about cellular and systemic metabolism and learning about its relationship with human health						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BIOLMEDL3_W07] has advanced knowledge of medical biology and is familiar with the health sciences terminology		- has extended knowledge of medical biology and knows the terminology of medical sciences (BM_W07)		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion		
	[BIOLMEDL3_W05] knows the structure, properties and functions of human cells, tissues and organs; human physiological and biochemical processes and mechanisms of disease pathophysiology		- knows and understands the biochemical processes taking place in the human body and mechanisms of disease pathophysiology (BM_W05)		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion		
	[BIOLMEDL3_W02] describes the structure and properties of basic types of biological macromolecules, molecular mechanisms of the pathways of basal metabolism and flow of genetic information, and sources of variation in organisms; explains the rules of inheritance		- describes the structure and properties of basic types of macromolecules biological, molecular mechanisms of basic metabolism pathways (BM_W02)		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion		

Subject contents	Regulation of metabolic pathways and their interrelationships. The impact of metabolic pathway disorders on human health. The use of knowledge of the mechanisms of metabolism in the diagnosis of human diseases.		
Prerequisites and co-requisites	Completion of the following courses: Biochemistry, Animal and human physiology. Knowledge of the structure and functions of macromolecules and small-molecule compounds occurring in the human body, understanding of basic biochemical processes, knowledge of the basics of human physiology.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	final test	51.0%	100.0%
Recommended reading	Basic literature	Original lecture prepared on the basis of articles from specialist journals and: Lieberman & Peet. Mark's Basic Biochemistry: A Clinical Approach. 6th Ed. Wolters Kluwer. 2022. Janson & Tischler. The Big Picture: Medical Biochemistry. The McGraw-Hill Companies, Inc. 2012. Rodwell et al. Harper's Illustrated Biochemistry. 30th Ed. McGraw-Hill Education. 2015.	
	Supplementary literature	Literature for self-study: Ferrier. Biochemia (Lippincott Illustrated Reviews. 7th Ed. Wolters Kluwer Health. 2017	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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