

Subject card

Subject name and code	Biological mechanisms of human behavior - lecture, PG_00210033						
Field of study	Criminology						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	part-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		2.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Laboratory of Neurophysiology and Neurochemistry -> Department of Animal and Human Physiology -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Grażyna Jerzemowska				
	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		0.0		35.0	50
Subject objectives	Understanding human behavior in the context of the functioning of the central and peripheral nervous system.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[KRYML3_W03] Has advanced knowledge and understanding of facts, theories, methods, and complex relationships concerning selected phenomena related to prohibited acts, in particular key social and psychological phenomena relevant to criminology, as well as their social, psychological, and cultural determinants.						
	[KRYML3_W02] Has advanced knowledge of terminology and key concepts in criminology, law, and related disciplines relevant to the field of study.						
Subject contents	1) Biological mechanisms of human functioning (genetics and behavior; theory of evolution; ethology; eugenics), 2) Structure and development of the nervous system (nerve cells; electrophysiology; CNS: structure of the telencephalon, diencephalon, midbrain, hindbrain; peripheral nervous system), 3) Physiology of sensory receptors, 4) Topographic and functional division of the nervous system, 5) Basic models of the brain-behavior relationship, 6) Hormonal management and the main neurotransmitter systems of the brain and their role in behavior, 6) Selected behavioral disorders and cognitive deficits resulting from abnormal functioning of the CNS, 7) Neuroimaging and contemporary directions of development of neurosciences.						
Prerequisites and co-requisites	Knowledge of human biology at the primary school level.						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	The exam (test) covers material from lectures; the exam is graded according to a percentage ("Regulations of UG Studies"),	51.0%	100.0%
Recommended reading	Basic literature	Lewandowska D., Orzeł-Gryglewska J. Fizjologia zwierząt i człowieka przewodnik do ćwiczeń, Wydawnictwo UG, 2009 Kalat J.W. Biologiczne podstawy psychologii, PWN, Warszawa, 2006,	
	Supplementary literature	Traczyk W.Z. Fizjologia człowieka w zarysie PZWL, 2024 Górska T., Grabowska A., Zagrodzka J. (red.) Mózg a zachowanie. Wydawnictwo Naukowe PWN, Warszawa, 1997. Narkiewicz O., Moryś J. Neuroanatomia czynnościowa i kliniczna, Wydawnictwo PZWL, 2013	
	eResources addresses		
	Example issues/ example questions/ tasks being completed	1) Nerve cells (structure and division), 2) Causes and developmental mechanisms of the most common CNS disorders, 3) Mechanisms of peripheral and central regulation of appetitive, defensive, sexual, and parental behaviors.	
Work placement	Not applicable		

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