

Subject card

Subject name and code	Neurobiology of behavior, PG_00146630						
Field of study	Biology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	postgraduate 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		
Semester of study	3	ECTS credits			2.0		
Learning profile	academic	Assessment form					
Conducting unit	Pracownia Neurobiologii -> Katedra Fizjologii Zwierząt i Człowieka -> Faculty of Biology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Irena Majkutewicz				
	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		4.0		16.0	50
Subject objectives	Familiarizing the student with the history, methodology and the latest trends in neurobiology. Familiarizing the student with the neurobiological basis of life functions and human cognitive abilities. Familiarizing the student with selected neurological and mental illnesses. Awakening sensitivity to the problems of people with mental or neurological disorders.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOLMU2_W04] the graduate has an in-depth knowledge of the chosen specialisation in the biological sciences	The student characterizes the function of individual brain structures or their functional systems. The student predicts the behavioral effects of specific changes in brain functioning at the structural or synaptic level. The student assigns to selected neurological and mental diseases their characteristic symptoms and changes in the structure and functioning of brain structures.	[SW4] test/exam - oral or written
	[BIOLMU2_W08] the graduate is familiar with the wealth of contemporary experimental approaches and techniques in the biological sciences and their use to solve the tasks at hand	The student describes the subject of research and methods used in neurobiology	[SW4] test/exam - oral or written
	[BIOLMU2_U01] the graduate is able to select and apply research techniques and tools appropriate to the problems of the biological sciences specialisation studied	The student selects appropriate techniques and methods in the field of neurobiology for a theoretical solution to the research problem.	[SU4] test/exam - oral or written
	[BIOLMU2_K04] the graduate is prepared to correctly identify and resolve dilemmas related to the profession of biology	The student knows the principles of ethics in animal experiments. Understanding the causes and mechanisms of various mental and neurological disorders, the student shows openness and tolerance towards people affected by them.	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written
Subject contents	Behavioural neurobiology the subject of research, history and methods used in it. A general outline of the functional anatomy of the brain. Neuronal activity and synaptic transmission. The limbic system the neural basis of emotions. Central mechanisms controlling defensive reactions. Central regulation of food intake and its disorders (anorexia, bulimia). Sexual behaviour neurohormonal regulation. Sexual dimorphism of the brain. Transsexualism and homosexuality. The brain's reward and addiction system. Central action of psychoactive substances. Neural basis of learning and memory. The impact of computer games on the brain and psychomotor skills. Chronobiology central regulation of biological rhythms. Motion control mechanisms. Neurobiological basis of selected mental illnesses and neurological disorders.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written test	51.0%	100.0%
Recommended reading	Basic literature	B. Sadowski: Biologiczne mechanizmy zachowania się ludzi i zwierząt", rel. 3, PWN, 2012. T. Górską, A. Grabowska, J. Zagrodzka [Eds]: Mózg a zachowanie, rel. 3, PWN, 2005.	
	Supplementary literature	D. Lewandowska, J. Orzeł-Gryglewska, E. Jurkowlaniec [Eds]: "Fizjologia zwierząt i człowieka", Wydawnictwo Uniwersytetu Gdańskiego, Wyd. 3, 2019. Gołąb, B. - "Anatomia czynnościowa ośrodkowego układu nerwowego", PZWL, wyd. 5, 2019	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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