

Subject card

Subject name and code	Neurobiology of behavior, PG_00146630						
Field of study	Biology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master's 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		credit		
Conducting unit	Laboratory of Neurobiology -> Department of Animal and Human Physiology -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. 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_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_W08] the graduate has an in-depth knowledge and understanding of 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_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		

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. Górka, 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. Gołab, B. - "Anatomia czynnościowa ośrodkowego układu nerwowego", PZWL, wyd. 5, 2019	
	eResources addresses		
	Example issues/ example questions/ tasks being completed		
Work placement	Not applicable		

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