

Subject card

Subject name and code	Neurophysiology, PG_00154572						
Field of study	Medical Biology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
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		2.0		
Learning profile	academic		Assessment form		credit		
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 hab. Jolanta Orzeł-Gryglewska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	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		6.0		14.0	50
Subject objectives	1. Demonstrating the primary role of the nervous system in controlling human vital functions. 2. Acquiring the ability to conduct neurophysiological observations/experiments while respecting the principles of bioethics.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BIOLMEDL3_K01] understands the need for lifelong learning and to update his/her knowledge of medical biology and related disciplines		understands the need for lifelong learning and updating knowledge in the field of neurophysiology		[SK8] observation of student's independent or team work		
	[BIOLMEDL3_K08] is ready to consciously apply the principles of bioethics		consciously applies the principles of bioethics		[SK8] observation of student's independent or team work		
	[BIOLMEDL3_U11] is able to use language specialized for medical biology in a way that is clear and accessible to both specialists and non-specialists alike		is able to use specialist neurobiology language in an understandable and accessible way		[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU3] text preparation/written work [SU4] test/exam - oral or written		
	[BIOLMEDL3_U03] performs simple tasks or research expertise typical of medical biology under the guidance of a supervisor		under the supervision of a scientific supervisor, performs simple tests or examinations to assess the function of the nervous system		[SU2] presentation/project/paper/report [SU6] demonstration of practical skills [SU8] observation of student's independent or team work		
Subject contents	Recording selected physiological processes in humans. Familiarization with basic tests used in clinical examinations of sensory organs. Neurological reflexes in humans. Recognition of the causes of autonomic function disorders. Recording of cerebral cortex activities. Methods of research on executive functions						

Prerequisites and co-requisites	Basic knowledge of human physiology and anatomy. It is necessary to obtain a pass in this subject before the lecture exam.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	presentation/essay	51.0%	5.0%
	"entrance ticket"	51.0%	20.0%
	test/colloquium	51.0%	55.0%
	report	51.0%	20.0%
Recommended reading	Basic literature	Lewandowska D., Orzeł-Gryglewska J. Jurkowłaniec E. 2019. Fizjologia zwierząt i człowieka, Wydawnictwo Uniwersytetu Gdańskiego. Felten D.L. i wsp. 2003. Atlas neuroanatomii i neurofizjologii Nettera. Elsevier Urban & Partner, Wrocław. Ganong W.F., 2007. Fizjologia. Wydawnictwo Lekarskie PZWL, Warszawa Narkiewicz O., Moryś J. Neuroanatomia czynnościowa i kliniczna. Wydawnictwo Naukowe PZWL, Warszawa	
	Supplementary literature	Sadowski B. 2005. Biologiczne mechanizmy zachowania się ludzi i zwierząt. PWN, Warszawa. Brodal Per 2004. The central nervous system. Structure and function. Oxford University Press. Longstaff A. 2002. Neurobiologia. Wydawnictwo Naukowe PWN, Warszawa.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Conduction of impulses in the nervous system. 2. Testing spinal reflexes. 3. Determining the field of vision and the blind spot. 4. Audiological examination. 5. Memory tests. 6. EEG examination.		
Work placement	Not applicable		

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