

Subject card

Subject name and code	Basics of brain physiology, PG_00150559						
Field of study	Logopedics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	uniform Master's studies		Subject group		Obligatory subject group in the field of study Subject group related to practical vocational preparation		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	1		ECTS credits		1.0		
Learning profile	practical		Assessment form		credit		
Conducting unit	Institute of Logopaedics -> Faculty of Languages -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Wojciech Glac				
	Teachers		dr n. med. Seweryna Konieczna				
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		1.0		9.0	25
Subject objectives	Learning and understanding of the model of brain functioning combining perceptual, autonomic, emotional, cognitive and motor processes. Learning and understanding the basics of brain processes necessary for proper social functioning, including communication (verbal and non-verbal).						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[LOGJ5_W15] Knows at an in-depth level the terminology of the social sciences (pedagogy, psychology and special education) and medical sciences relevant to the field of speech therapy. He understands its origin and knows the principles of application within related scientific disciplines.	Knows basic terminology in the field of neuroscience, relevant for the logopedics.	[SW4] test/exam - oral or written [SW3] text preparation/written work
	[LOGJ5_U06] He has in-depth skills in identifying biomedical and psychological conditions of language problems and dysphagia in the patient, can analyze and interpret information gathered from medical and psychological sources and, using medical terminology, explain complex speech therapy problems.	Is able to identify the biomedical basis of speech and language disorders and, using medical terminology, including neuroscience, is able to explain complex speech therapy problems.	[SU5] implementation of a problem task
	[LOGJ5_U13] Recognizing the need to deepen knowledge of the structure and functioning of the human body (nervous system, hearing and speech organs), he is able to plan and implement his own learning in the social and medical sciences relevant to speech therapy.	Recognizing the need to deepen knowledge of the structure and functioning of the nervous system, he independently plans and implements his own learning in this area.	[SU5] implementation of a problem task
	[LOGJ5_K06] Can independently and critically supplement knowledge and skills in medicine, social sciences and fields useful to speech therapists.	Is able to independently and critically complement knowledge and skills in the field of neuroscience useful from the point of view of a speech and language therapist.	[SK1] oral statement/conversation/discussion [SK5] implementation of a problem task
	[LOGJ5_W12] He knows and understands in depth the biomedical background of human development and communication skills, as well as their disorders, the structure and function of the human body, relevant to speech therapy and the changes in speech and language with age.	Has advanced knowledge of the biomedical basis of human development and communication skills, as well as structure and functions of the human brain, important from the point of view of logopedics.	[SW4] test/exam - oral or written [SW3] text preparation/written work
Subject contents	• general structure of the central nervous system and senses • neural basis of perceptual, emotional and cognitive processes • neurobiological model of brain functioning • neural basis of speech recognition, processing and production • neural basis of speech disorders		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	elaborations	51.0%	30.0%
	problem-based task (case study)	51.0%	35.0%
	quizzes	51.0%	30.0%
	discussion	51.0%	5.0%
Recommended reading	Basic literature	Alan Longstaff. Krotkie wykłady. Neurobiologia. Wydawnictwo Naukowe PWN.	
	Supplementary literature	T. Brzozowski. Fizjologia człowieka. Konturek. Edra Urban & Partner. Bogdan Sadowski. Biologiczne mechanizmy zachowania się ludzi i zwierząt. Wydawnictwo Naukowe PWN.	
	eResources addresses		

Example issues/ example questions/ tasks being completed	Problem-based task: based on given description of a person, indicate and justify what are the possible neurobiological causes of his/her condition and indicate and justify what actions should be taken to eliminate the problem Elaborations: develop a model of brain functioning - subsequent stages of brain information processing Discussions: what knowledge in the field of neuroscience could be useful to improve the effectiveness of therapy for a [selected] speech disorder Quizzes: Indicate which structures (of the ones listed below) of the brain are involved in speech production.
Work placement	Not applicable

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