University of Gdańsk

Subject card

Subject name and code	Chosen Aspects of Neuroanatomy, Neurophysiology and Speech Pathology, PG_00150672						
Field of study	Logopedics						
Date of commencement of studies	October 2024		Academic year of realisation of subject	2026/2027			
Education level			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	3		Language of instruction	Polish			
Semester of study	5		ECTS credits	1.0			
Learning profile	practical		Assessment form				
Conducting unit	Instytut Logopedii -> Faculty of Languages						
Name and surname of lecturer (lecturers)	Subject supervisor		dr n. med. Jerzy Dziewiątkowski				
	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		1.0		9.0	25
Subject objectives	At the end of the lecture cycle, the student should know the structure of the central nervous system to the extent that it allows to understand the basic functions of the central nervous system for speech. In particular the construction, location and functioning of movement, sensory, auditory and visual centres with the characteristic storey layout of structures. He should know the location and construction of speech-related centers. He should be able to characterize the higher functions of the nervous system, and know the basic features of hemispherical asymmetry.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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.	The student has a structured and in-depth knowledge of the structure and function of the central nervous system and its disorders, has a systematic knowledge of the localization of the cortical centers of individual functional systems and their disorders.	[SW4] test/exam - oral or written
	[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.	The student can independently explain the anatomical aspect of a given speech disorder, also in the case of complex medical disorders, including neurological disorders, and try to explain the mechanism of the occurrence of this disorder in a specific case, has the ability to link basic defects related to speech with the structure and location of centres belonging to the motor, sensory, visual and auditory systems, has the ability to correctly interpret and analyze processes and phenomena of language, communication and social disorders recorded in the group of patients with neurological disorders and dysfunctions.	[SU4] test/exam - oral or written
	[LOGJ5_U11] He is able to cooperate in teamwork with representatives of various sciences: physicians, psychologists, educators, teachers, in order to provide holistic care and therapy to his patients, using equipment and apparatus, as well as diagnostic and therapeutic methods used in social sciences and medical disciplines relevant to the field of Logopedics.	The student is able to prepare a diagnosis and opinion about the patient, properly interpret the disorders that occur in the patient.	[SU4] test/exam - oral or written
	[LOGJ5_K04] He is aware of his own limitations and knows when there is a need to turn to experts of fields relevant to speech therapy and committed cooperation with various institutions of health care and supporting educational, cultural and support activities.	The student understands the necessity of continuous improvement of acquired skills and enrichment of resources used in speech therapy practice.	[SK4] test/exam - oral or written
	[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.	The student is able to evaluate his/her activities and make corrections.	[SU4] test/exam - oral or written
	[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.	Student defines anatomical titles correctly, is able to characterize the main anatomical structures of the central nervous system – belonging to the motor, sensory, visual and auditory systems.	[SW4] test/exam - oral or written
	[LOGJ5_K06] Can independently and critically supplement knowledge and skills in medicine, social sciences and fields useful to speech therapists.	The student understands the need for continuous expansion of knowledge in the field of speech therapy and related sciences, shows creativity in the use of speech therapy methods and techniques.	[SK4] test/exam - oral or written

	Course outcome	Subject outcome	Method of verification
	[LOGJ5_W13] He knows and understands in depth the biomedical and psychological causes of speech and language disorders occurring in people of different ages.	The student can explain the specificity of speech centers related to their location and function, has in-depth knowledge that allows for self-diagnosis of speech disorders and preparation of speech therapy program properly selected for a given disorder.	[SW4] test/exam - oral or written
Subject contents	A multi-storey structure of the central nervous system. Cerebral cortex. Location of primary centers in the cerebral cortex: motor, sensory, visual and auditory. Functional systems of the central nervous system: motor, sensory, auditory and visual. Limbic system. Memory. Higher neural activity. Coordination of speech centers. The basic symptoms of damage to the speech centers. Interhemispheric asymmetry. Localization of cortical and subcortical structures related to motor, sensory, visual and auditory systems. Vascularization of the central nervous system. The ventricular system of the brain. Centers related to speech in the developmental and vascular aspect. Study of hemispherical asymmetry.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test	51.0%	100.0%
Recommended reading	Basic literature	• Hansen Anatomia Nettera do kolorowania, wybrane rozdziały, Elsevier, Wrocław 2010. • Narkiewicz, Moryś Anatomia człowieka PZWL, Warszawa, 2010 wybrane rozdziały. • Podstawy neurologopedii, red. T. Gałkowski, E. Szeląg, G. Jastrzębowska, Opole 2005.	
	Supplementary literature	• Narkiewicz, Moryś Anatomia człowieka PZWL, Warszawa, 2010 wybrane rozdziały. • Podstawy neurologopedii, red. T. Gałkowski, E. Szeląg, G. Jastrzębowska, Opole 2005.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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