University of Gdańsk

Subject card

Subject name and code	Neurophysiological Foundations of Communication, PG_00150673						
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			
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		prof. dr hab. Mirosław Michalik				
	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	Discussion of issues related to the functioning and damage of individual functional systems in the scope of the central and peripheral nervous system involved in verbal and nonverbal communication.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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 is able to characterize the neuroanatomical bases of the discussed groups, has the ability to understand the patient's neurological localization diagnosis, based on the analysis of the collected information, it evaluates the depth and type of speech disorders.	[SU1] oral statement/conversation/ discussion [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 cooperates with other specialists treating the patient undergoing therapy, can adequately identify priorities for the implementation of a task defined by himself or others, appropriate to the essential needs of the patient, he can correctly formulate opinions and judgments about various aspects of his profession.	[SK1] oral statement/conversation/ discussion
[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 independently and critically use various sources and use the information collected on their basis in the work of a speech therapist.	[SU1] oral statement/conversation/ discussion [SU4] 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 neurology, understands the necessity of continuous improvement of acquired skills and enrichment of resources used in speech therapy practice.	[SK1] oral statement/conversation/ discussion
[LOGJ5_W04] Has an in-depth, structured knowledge of linguistic development in normal and pathology, as well as factors affecting its course.	The student defines the discussed sets of clinical symptoms and can make their classification taking into account the anatomical and pathophysiological criterion, he knows the impact of these functional disorders on the development of speech disorders.	[SW4] test/exam - oral or written
[LOGJ5_W07] Has in-depth and expanded knowledge of language communication disorders and eating disorders of various etiologies in adults, the principles of their diagnosis and treatment programming.	The student knows the methods and rules of diagnosing the dysfunction of the nervous system discussed.	[SW4] test/exam - oral or written
[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 extensive and structured knowledge of the presented issues.	[SW4] test/exam - oral or written
[LOGJ5_U09] He is able to communicate, applying the principles of language culture and using linguistic, speech therapy and medical terminology with the use of various communication channels and techniques, with specialists of other scientific disciplines and non-specialists in Polish and a foreign language, to the extent necessary in teaching and speech therapy activities.	The student critically analyzes and interprets descriptions of observed disorders in patients and their diagnoses made by rehabilitators of other specialties, is able to work with other specialists using professional terminology.	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td>Musculoskeletal system: pyramid syndrome, peripheral neuron syndrome.
Sensory pathways: touch, pain and temperature, proprioceptive sensation.
Pillow and Pillow Syndrome. Brain syndrome.
Stump assemblies.
Sensory organs visual pathway (vision disturbances, visual apraxia, visual agnosia), auditory pathway (conductive, receiver hearing loss). The concept of aphasia and dysarthria. Types of aphasia. Disorder of consciousness. Behavioural and mood disorders.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Test</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>• Moryś J., Narkiewicz O. (2011): Neuroanatomia czynnościowa i kliniczna, PZWL.
• Neurologia kliniczna dla lekarzy i studentów medycyny (2007): red. R. Mazur, Via Medica.
• Netter F. Układ nerwowy atlas anatomii
• Prusiński A. (2011): Neurologia praktyczna, PZWL.</td></tr><tr><td>Supplementary literature</td><td>Podemski R. (2019): Kompendium neurologii, Via Medica.</td></tr><tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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