

## Subject card

|                                             |                                                                                                                                                                                    |                                                          |                                         |                                     |                                                |            |     |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|------------------------------------------------|------------|-----|
| Subject name and code                       | Neurophysiological Foundations of Communication, PG_00151591                                                                                                                       |                                                          |                                         |                                     |                                                |            |     |
| Field of study                              | Logopedics                                                                                                                                                                         |                                                          |                                         |                                     |                                                |            |     |
| Date of commencement of studies             | October 2026                                                                                                                                                                       |                                                          | Academic year of realisation of subject |                                     | 2026/2027                                      |            |     |
| Education level                             | Master's studies                                                                                                                                                                   |                                                          | Subject group                           |                                     | Obligatory subject group in the field of study |            |     |
| Mode of study                               | part-time studies                                                                                                                                                                  |                                                          | Mode of delivery                        |                                     | at the university                              |            |     |
| Year of study                               | 1                                                                                                                                                                                  |                                                          | Language of instruction                 |                                     | Polish                                         |            |     |
| Semester of study                           | 1                                                                                                                                                                                  |                                                          | ECTS credits                            |                                     | 2.0                                            |            |     |
| Learning profile                            | practical                                                                                                                                                                          |                                                          | Assessment form                         |                                     | exam                                           |            |     |
| Conducting unit                             | Institute of Logopaedics -> Faculty of Languages -> Rector                                                                                                                         |                                                          |                                         |                                     |                                                |            |     |
| 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                                                       |                                         | 2.0                                 |                                                | 33.0       | 50  |
| Subject objectives                          | Discusses issues related to the functioning and damage of various functional systems in the central and peripheral nervous system involved in verbal and non-verbal communication. |                                                          |                                         |                                     |                                                |            |     |

| Learning outcomes               | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Subject outcome                                                                                                                                                                                                                                                                                                                | Method of verification                                                            |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                 | [LOGMU2_W07] He has an 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.                                                                                                                                                                                                                                                                                                              | knows what is the impact of the discussed functional disorders on the formation of speech disorders; knows the methods and principles of diagnosis of the discussed dysfunctions of the nervous system.                                                                                                                        | [SW4] test/exam - oral or written                                                 |
|                                 | [LOGMU2_W12] He knows and understands in depth the biomedical basis of human development and communication skills, as well as the changes in speech and language with age.                                                                                                                                                                                                                                                                                                                                                 | He has an in-depth knowledge of the biomedical basis of speech and language development and the factors affecting the process.                                                                                                                                                                                                 | [SW4] test/exam - oral or written                                                 |
|                                 | [LOGMU2_K06] Able to independently and critically supplement knowledge and skills in medicine and social sciences.                                                                                                                                                                                                                                                                                                                                                                                                         | 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 the resource of working methods used in speech therapy practice                                                                                 | [SK1] oral statement/conversation/discussion                                      |
|                                 | [LOGMU2_U06] He has in-depth skills in identifying the biomedical and psychological determinants of language problems and dysphagia in the patient, and can analyze and interpret information gathered from medical and psychological sources.                                                                                                                                                                                                                                                                             | can characterize the neuroanatomical basis of the syndromes discussed; has the ability to understand the patient's neurological localization diagnosis                                                                                                                                                                         | [SU1] oral statement/conversation/discussion<br>[SU4] test/exam - oral or written |
|                                 | [LOGMU2_K04] He is aware of his own limitations and knows when there is a need to turn to experts in fields relevant to speech therapy.                                                                                                                                                                                                                                                                                                                                                                                    | Cooperates with other specialists treating the patient undergoing treatment; is able to appropriately determine priorities for the implementation of a task defined by himself or others, adequate to the relevant needs of the patient; is able to properly form opinions and judgments on various aspects of his profession. | [SK1] oral statement/conversation/discussion                                      |
|                                 | [LOGMU2_U13] He is able to plan and implement his own learning in the social and medical sciences relevant to speech therapy.                                                                                                                                                                                                                                                                                                                                                                                              | can independently and critically use a variety of sources and use the information gathered from them in the work of a speech therapist                                                                                                                                                                                         | [SU1] oral statement/conversation/discussion<br>[SU4] test/exam - oral or written |
|                                 | [LOGMU2_U09] He is able to communicate, 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.                                                                                                                                                                                                                                                     | critically analyzes and interprets descriptions of observed disorders in patients and their diagnoses made by rehabilitators of other specialties, is able, while using terminology in a professional manner, to cooperate with other specialists                                                                              | [SU1] oral statement/conversation/discussion<br>[SU4] test/exam - oral or written |
|                                 | [LOGMU2_W04] Has an in-depth, structured knowledge of linguistic development in norm and pathology and the factors affecting its course.                                                                                                                                                                                                                                                                                                                                                                                   | Has a comprehensive and structured knowledge of the issues presented                                                                                                                                                                                                                                                           | [SW4] test/exam - oral or written                                                 |
| Subject contents                | <p>Motor system: pyramidal syndrome, peripheral neuron syndrome.<br/>Sensory pathways: touch, pain and temperature, proprioceptive sensation.<br/>Pupillary and pseudobulbar syndrome. Cerebellar syndrome.<br/>Trunk syndromes.<br/>Sensory organs - visual pathway (visual field disorders, visual apraxia, visual agnosia), auditory (conductive hearing loss, sensorineural hearing loss). The concept of aphasia and dysarthria. Types of aphasia.<br/>Disorders of consciousness. Behavioral and mood disorders.</p> |                                                                                                                                                                                                                                                                                                                                |                                                                                   |
| Prerequisites and co-requisites | Nie dotyczy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                |                                                                                   |
| Assessment methods and criteria | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Passing threshold                                                                                                                                                                                                                                                                                                              | Percentage of the final grade                                                     |
|                                 | Passing a test exam, verifying the established learning outcomes                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 51.0%                                                                                                                                                                                                                                                                                                                          | 100.0%                                                                            |

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| Recommended reading                                            | Basic literature         | <ul style="list-style-type: none"> <li>• Moryś J., Narkiewicz O. (2011): Neuroanatomia czynnościowa i kliniczna, PZWL.</li> <li>• Neurologia kliniczna dla lekarzy i studentów medycyny (2007): red. R. Mazur, Via Medica.</li> <li>• Netter F. Układ nerwowy atlas anatomii</li> <li>• Prusiński A. (2011): Neurologia praktyczna, PZWL.</li> </ul> |
|                                                                | Supplementary literature | <ul style="list-style-type: none"> <li>• Podemski R. (2019): Kompendium neurologii, Via Medica.</li> </ul>                                                                                                                                                                                                                                           |
|                                                                | eResources addresses     |                                                                                                                                                                                                                                                                                                                                                      |
| Example issues/<br>example questions/<br>tasks being completed | Nie dotyczy              |                                                                                                                                                                                                                                                                                                                                                      |
| Work placement                                                 | Not applicable           |                                                                                                                                                                                                                                                                                                                                                      |

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