

Subject card

Subject name and code	Principles of neuro-rehabilitation, PG_00203444						
Field of study	Medical Biology						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2028/2029		
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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		3.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Animal and Human Physiology -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Emilia Leszkowicz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	0.0	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		5.0		40.0	75
Subject objectives	To familiarize students with methods used in broadly understood neurorehabilitation and techniques supporting the functioning of the nervous system.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOLMEDL3_K03] is ready to form opinions about individuals, social groups, and the organization of individual and team work; independently undertakes and initiates simple research activities	Is able to formulate opinions regarding the needs and methods of neurorehabilitation in the context related to the profession of a medical biologist.	[SK8] observation of student's independent or team work
	[BIOLMEDL3_W04] has advanced knowledge of medical biology and its latest developments, and is familiar with and understands issues related to the role of medical biology in human health care	Has knowledge of neurorehabilitation methods and knows terminology in this field.	[SW4] test/exam - oral or written
	[BIOLMEDL3_U06] is able to identify problems corresponding to the needs of an individual and a social group and to undertake diagnostic, preventive and educational activities appropriate to the profession of medical biologist	Is able to identify problems corresponding to the needs of an individual and a social group and to undertake basic preventive and educational activities in the field of neurorehabilitation	[SU8] observation of student's independent or team work
	[BIOLMEDL3_W12] is familiar with the principles of occupational safety, health, and ergonomics, as well as the legal, organizational, and ethical considerations involved in the professional practice of a neurobiologist or molecular-biochemical analyst	Knows the basic principles of occupational health and safety and ergonomics.	[SW1] oral statement/conversation/discussion
	[BIOLMEDL3_W07] has advanced knowledge of methods for assessing health status, as well as the symptoms and causes of selected disorders and pathological changes; understands the basics of a healthy lifestyle and is able to explain and promote them	Has knowledge of assessing the symptoms and causes of nervous system disorders and knows the basics of ensuring its proper functioning.	[SW4] test/exam - oral or written
	[BIOLMEDL3_W08] has an advanced understanding of the development and current state of knowledge and the latest trends in medical biology; indicates their relationship with other disciplines of natural or medical sciences	Familiar with the development, current state of knowledge and the latest trends in neurorehabilitation; knows their relationship with other medical science disciplines	[SW4] test/exam - oral or written
Subject contents	Zootherapy, DBS, TMS, tDCS, tFUS, Biofeedback, Manual therapies, bioprotheses and others.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		51.0%	100.0%
Recommended reading	Basic literature	Farsin Hamzei i wsp.: Neurorehabilitacja oparta na dowodach naukowych Volker Dietz, Nick Ward (eds): Oxford Textbook of Neurorehabilitation David J. Reinkensmeyer, Laura Marchal-Crespo, Volker Dietz (eds): Neurorehabilitation Technology or other items on neurorehabilitation available in the UG library.	
	Supplementary literature	Relevant articles in English	
	eResources addresses		

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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