

Subject card

Subject name and code	Selected aspects of neurology, PG_00024940								
Field of study	Medical and Mechanical Engineering, Mechanical and Medical Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
Education level first-cycle studies			Subject group			Obligatory subject group in the field of study			
						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	5		ECTS credits			1.0			
Learning profile	general academic profile		Assessmer	essment form			assessment		
Conducting unit	Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor		Grzegorz Kozera						
	Teachers		Grzegorz Kozera						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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 classes include plan		· ·		Self-study		SUM		
	Number of study hours	15		3.0		7.0		25	
Subject objectives	To acquaint the student with the basic causes, symptoms and treatments of diseases of the nervous system. Overview of the most important methods of neuroimaging, neurophysiological and ultrasound diagnostics used in neurology. Mastering by the student to solve the basic problems related to the prevention of diseases of the nervous system								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U10		The student describes the basic elements of the nervous system, explains the most important principles of their functioning and the main causes of disease symptoms			[SU3] Assessment of ability to use knowledge gained from the subject			
			The student is able to recognize the basic symptoms of disease, can select adequate diagnostic techniques and knows the rules of prevention.			[SW1] Assessment of factual knowledge			
	K6_K02		The student is aware of the importance of non-technical conditions and effects of engineering activities. The student is aware of the responsibility for the decisions made.			[SK2] Assessment of progress of work			

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construction of the motor and sensory system, - the most common disorders in the sensory system. 2. Vascular diseases of the brain - stroke / TIA epidemiology and risk factors, - main symptoms is of the disease treatment methods, - diagnostics - neuroimaging techniques, - stroke prevention. 3. Diseases of the spine and spinal cord, - diagnostic and therapeutic methods, - prevention of diseases of the spine and spinal cord, - diagnostic and therapeutic methods, - prevention of diseases of the spine and spinal cord, - diagnostic and therapeutic methods, - prevention of diseases of the spine. 4. Methods of diagnosing nervous system diseases: neurophysiological basics, used used, clinical indications and obtained results A: electrophysiological tests: - electroencephalography, - nerve conduction studies, discrimyographic examination, - evoked potentials; B: ultrasound examinations - ultrasound of intracerebral afteries, - transcrianial ultrasound, - ultrasound of intracerebral afteries, - transcrianial ultrasound, - ultrasound of peripheral nerves. Prerequisites Basic knowledge of the subjects. Physics, Biology, Electrical Engineering Alterodance / participation in diseases transcrianial ultrasound, - ultrasound of peripheral nerves. Bulpiect passing criteria Passing threshold Percentage of the final grade Alterodance / participation in disease. Subject passing criteria Passing threshold Percentage of the final grade Alterodance / participation in disease Supplementary iterature Basic Iterature - Okroji Lubecka Julita, Suzukia disease, and in indicatival macrogal. Via Medica Cdarks 2011 - Via Grzegoz Zucia, Juliany Wigical, Waleny Michal Niyka Zastosovani badaria ultrasonograficzny w profilaktyce idenu mözgu. Forum Medynym Rodotine, 2008, T. 2, nr 6, s Cample issues/ example guestions/ tasks being completed Discuss the structure of the nervous system Juliatify the statement that a stroke is a growing threat of the cyterial profile of the CNS. opplian in final calculation and discovery	Subject contents	1: Basics of the anatomy of the ne	ryous system: - structure of the centra	al and peripheral nervous system -				
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Work placement Not applicable	Work placement		<u> </u>					

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