

Subject card

Subject name and code	Engineering problems in neurology, PG_00055758								
Field of study	Mechanical and Medical Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025			
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	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Mechanics	and Machine	Design -> Facເ	ulty of Mechani	cal Eng	ineering	and Ship Tec	chnology	
Name and surname	Subject supervisor	Subject supervisor Grzegorz Kozera							
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	10.0	0.0	5.0	0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes including plan				Self-study SUM				
	Number of study hours	15		1.0		9.0		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] he/she is able to assess the human body physic and basic functioning of the body organs, he/she is able to use basic medical knowledge to solve mechanical-medical problems in the scope of the MME study		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			
	[K6_K02] he/she is aware of importance of professional dealing and to fulfill ethics obligations, he/she understands other (nontechnical) abilities of mechanical engineering professional, their influence on the society and security of environment, he/she is aware of importance of social cooperation		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			
	[K6_W12] he/she has basic knowledge in the field of fundamental medical sciences, human body anatomy, and physiology, salvage service		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			

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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 s of the disease, - treatment methods, - diagnostics - neuroimaging techniques, - stroke prevention. 3: Diseases of the spine and spinal cord: - anatomy and function of the spine and spinal cord, - the most common 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, electromyographic examination, - evoked potentials: B: ultrasound examinations: - ultrasound of intracerebral arteries, - transcranial ultrasound, - ultrasound of peripheral nerves. Prerequisites and co-requisites Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade Aftendance / participation in diasses Subject passing criteria Passing threshold Percentage of the final grade Aftendance / participation in diasses Subject passing criteria Recommended reading Basic literature Supplementary literature Okcid-Lubecka Julitia, SZUROWSKA EDYTA, KOZERA GRZEGONZ: Metody neuroobiazowania osterią lazy udiaru riectokowennego możgu praktyce klinicznej froum Med. Rodz. 2015; 1, 9, nr 6 Radosław Kazimierski (red.) Podręcznik diagnostyki ultrasonograficzne w neurologi, Czelej, Lubiin 2011 Grzegorz Kozera, Joanna Wejczat. Walenty Michał Nyka Zastosowani badań ultrasonograficznych y profitaktyce udiaru możgu. Forum Med. Rodz. 2015; 1, 9, nr 6 Radosław Kazimierski (red.) Podręcznik diagnostyki ultrasonograficzne w neurologi, Czelej, Lubiin 2011 Grzegorz Kozera, Joanna Wejczat. Walenty Michał Nyka Zastosowani badań ultrasonograficznych y profitaktyce udiaru możgu. Forum Med. Rodz. 2015; 1, 9, nr 6 Recommended reading Discuss the structure of the nervous system. Justy the statement that a stroke is a growing threat of the ar	Subject contents	1: Basics of the anatomy of the nei	ryous system: - structure of the centra	al and peripheral nervous system -				
disease - treatment methods - diagnositics - neuroimaging techniques - stroke prevention - 3. Diseases of the sprine and sprial cord - anatomy and function of the sprine and sprial cord - the most common diseases of the sprine. 4. Methods of diagnosing nervous system diseases: neurophysiological basics, used used, clinical indications and obtained results A electrophysiological tests: - electroencephalography, - nerve conduction studies, electromyographic examination, - evoked potentials; B: ultrasound examinations: - ultrasound of infracerebral arteries, - transcranial ultrasound, - ultrasound of peripheral nerves. Prerequisites and co-requisites Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade Attendance / participation in 80.0% and criteria Recommended reading Basic literature Supplementary literature Response in the sprine and sprinal cord, - the most passing threshold Percentage of the final grade Redoslaw Kazzierski (red.) Podręcznik diagnostyki ultrasonograticzne w neurologii, Czelej, Lubilin 2011 Grzegorz Kozera, Joan na Wojczal, Walenty Michal Nyka Zastosowani badań ultrasonograticznych w profiliakcyce udaru móżgu. Forum Medycyni Rodzinnej 2006. T. 2, nr 6, s eResources addresses Adresy na platformie eNauczanie: Discuss the structure of the nervous system. Justify the statement that a stroke is a growing hreat of the army principle mean. Point out the straintings on of disadranague of individual neuromogning techniques, developing spine deseases. Define indications and discuss the methods of ultrasonograficzney in profiliakcy or discussion deseases. Define indications and discuss the methods of University of incidente in sort in protein mean. Point out the straintings and discussion and incidente in and stroke is a growing threat of the core; propingly on the statement that a stroke is a growing threat of the core; propins meyn the statement that a stroke is a growing threat of the core; propins meyn method in the mean incident	Subject contents	Basics of the anatomy of the nervous system: - structure of the central and peripheral nervous system, - construction of the motor and sensory system, - the most common disorders in the sensory system.						
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Work placement Not applicable	Work placement		<u>.,</u>					

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