

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 2022		Academic year of realisation of subject			2023/2024		
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 -> Faculty of Mechanical Engineering and Ship Technology							chnology
Name and surname	Subject supervisor	Grzegorz Kozera						
of lecturer (lecturers)	Teachers		Grzegorz Koz	ozera				
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 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	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 out	come	Subject outcome Method			Method of ver	ification	
	[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		
			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_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		

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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 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 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 Gragory Kozera, Joanna Wejizzat. Waterily Michał Nyka Zastosowani badah ultrasonograficznych y profitaktyce udaru możgu. Forum Med. Rodz. 2015 : 1, 9, re 6 Radosław Kazteriacki (red.) Podręcznik diagnostyki ultrasonograficzne w neurologi, Czelej, Lubin 2011 Grzegory Kozera, Joanna Wejizzat. Waterily Michał Nyka Zastosowani badah ultrasonograficznych y profitaktyce udaru możgu. Forum Med. Rodz. 2015 : 1, g. r. 6 Recommended reading Passing testing the structu	Subject contents	1: Basics of the anatomy of the nei	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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