

Subject card

Subject name and code	Human Anatomy, PG_00055731								
Field of study	Mechanical and Medical Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-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	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Mechanics	and Machine	nd Machine Design -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname	Subject supervisor		Edyta Spodnik						
of lecturer (lecturers)	Teachers		Edyta Spodnik						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	30.0	0.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	rning activity Participation in classes include plan				Self-study SUM			
	Number of study hours	30		1.0		19.0		50	
Subject objectives	Mastering the knowledge of the structure and functioning of the human body.								
Learning outcomes	Course out	come	Subject outcome				Method of verification		
			The student is able to find the necessary information in professional literature, databases and other sources, as well as integrate information and formulate conclusions.			[SU2] Assessment of ability to analyse information			
	[K6_U05] he/she is able to use analytic and modelling methods to formulate and solve engineering tasks related to the mechanical-medical area		The student describes the structure of individual organs and the systems they create. The student knows the structure and functioning of the eyesight and hearing organs. The student knows the physiological basis of muscle action and the action of muscles on joints. The student knows the structure and functioning of integrative systems - the circulatory system and the nervous system. The student knows the basic anatomical nomenclature. The student is aware of the role that organs play in these systems and the role of these systems for the functioning of the whole organism.			[SW1] Assessment of factual knowledge [SU3] Assessment of ability to use knowledge gained from the subject			

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Subject contents	Skeletal system - general bone structure; skeleton of the limbs. Articular system - bone connections; ligaments. Muscular system - the muscles of the limbs; innervation of muscle groups. Fundamentals of the physiology of muscle activity. Mechanics of joints and the action of muscles on joints. Axial skeleton. Spine and chest. Torso and back muscles. Diaphragm. The mechanics of breathing. Somatic nervous system - structure of the spinal nerve; ganglia and nerves. Circulatory system I. Heart; heart conducting system; coronary vessels. Cardiovascular system II. General diagram of the circulatory system. Respiratory system. Alimentary system I. Alimentary canal. Digestive system II. The great glands of the digestive tract. Portal circulation. Genitourinary system. Head I. Skull; Venous sinuses of the dura mater. The muscles of the head. Temporomandibular joint. Cranial nerves: V; VII; IX; X; XI; XII. Head II. Sensory organs - eye; ear. Cranial nerves: I; II; III; IV; VI; VIII. Central nervous system - structure. Basic functional systems						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Colloquium	60.0%	100.0%				
Recommended reading	Basic literature Anatomia człowieka. Woźniak. Wyd 3. Red. M.Bruska, B.Ciszek, Edra 2019						
	Supplementary literature	Anatomia Nettera do kolorowania JT.Hansen. Edra 2015					
	eResources addresses	Adresy na platformie eNauczanie:					
		Anatomia człowieka - Moodle ID: 34254 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34254					
Example issues/ example questions/ tasks being completed	Name the movements performed in the individual joints. Name the muscle groups that perform these types of movements. Describe the symptoms resulting from the loss of functions of individual muscle groups or damage to specific nerves.						
Work placement	Not applicable						

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