

Subject card

Subject name and code	Essentials of anatomy and physiology, PG_00082089								
Field of study	Chemistry								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026			
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	1	Language of instruction			Polish				
Semester of study	2		ECTS credits			3.0			
Learning profile	academic	Assessment form			exam				
Conducting unit	Faculty of Chemistry -> Rector								
Name and surname	Subject supervisor		dr hab. Beata Ludkiewicz						
of lecturer (lecturers)	Teachers								
Lesson types	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	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	The student after completing the course should: have mastered basic information from descriptive anatomy and anatomical denominations. Should also know the structure of a human being in a living subject, and be able to connect organ building with their basic activity.								

basic laws and theories in chemistry, physics, mathematics and biology. the human body along with its functional aspects, understands the basis of pathological changes ongoing within individual systems and organs. The student learns the structure of bones and their connections. The student learns the general structure and functions of the musculoskeletal system, circulatory system and peripheral nervous system. The student is also acquainted with the	or written						
structure and functions of organs of the respiratory, digestive and genitourinary systems.	[SW4] test/exam - oral or written						
[CHEML3_W05] Has basic knowledge of the chemical specialisation studied. The student learns the structure of the human body along with its functional aspects, understands the basis of pathological changes ongoing within individual systems and organs. The student learns the structure of bones and their connections. The student learns the general structure and functions of the musculoskeletal system, circulatory system and peripheral nervous system. The student is also acquainted with the structure and functions of organs of the respiratory, digestive and genitourinary systems.	or written						
muscle work. 3. Spine and chest - axial skeleton and mm. trunk. Mechanics of breathing. 4. Perip nervous system - spinal nerve. Conduction of the nervous impulse. 5. Circulation I - heart. Heart of Starling's law. 6. Circulatory system II - peripheral vessels. Spleen, lymphatic system. Portal circulatory system - upper and lower respiratory tract. Gas exchange. 8. Digestive system - food mechanism of peristaltic wave formation. 9. Digestive system - big glands. Liver and pancreas - big digestive enzymes. 10. Genito-urinary system. Urinary excretion. The renin-angiotensin-aldostero 11. Endocrine system hormones. 12. Autonomic nervous system. A skin and its creations. 13. Head - skull, sinus venous dura, expressive muscles, rumen muscles, tongue. 14. Organs of the senses - eye, ear, smell, taste.	 13. Head - skull, sinus venous dura, expressive muscles, rumen muscles, tongue. 14. Organs of the senses - eye, ear, smell, taste. 15. Central nervous system - storied construction. Localization of centers in the forebrain. Spinal cord - 						
Prerequisites and co-requisites Biology knowledge of secondary school level							
Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final written exam 51.0% 100.0%	iai yi aue						
Whiter Oxam							
	Sokołowska-Pituchowa J.: Anatomia człowieka. PWZL, Warszawa wyd. po 1988 Yokochi C., Rohen J.: Fotograficzny atlas anatomii człowieka.						
Supplementary literature not applicable	not applicable						
eResources addresses	ποι αργιισασίο						
Example issues/ example questions/ tasks being completed							
Work placement Not applicable							

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