University of Gdańsk

Subject card

Subject name and code	Essentials of anatomy and physiology, PG_00082089		
Field of study	Chemistry		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
Education level	Bachelor's 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	2	ECTS credits	3.0
Learning profile	academic	Assessment form	exam
Conducting unit	Faculty of Chemistry -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Beata Ludkiewicz	
	Teachers	dr hab. Beata Ludkiewicz	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	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.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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.	[SW4] test/exam - oral or written
[CHEML3_W01] Enumerates basic laws and theories in chemistry, physics, mathematics and biology.	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.	[SW4] test/exam - oral or written

Subject contents

1. Bone-joint system - limb skeleton. Division and mechanics of joints. 2. Muscular system. Mechanism of muscle work. 3. Spine and chest - axial skeleton and mm. trunk. Mechanics of breathing. 4. Peripheral nervous system - spinal nerve. Conduction of the nervous impulse. 5. Circulation I - heart. Heart cycle. Starling's law. 6. Circulatory system II - peripheral vessels. Spleen, lymphatic system. Portal circulation. 7. Respiratory system - upper and lower respiratory tract. Gas exchange. 8. Digestive system - food spool. The mechanism of peristaltic wave formation. 9. Digestive system - big glands. Liver and pancreas - bile, digestive enzymes. 10. Genito-urinary system. Urinary excretion. The renin-angiotensin-aldosterone system. 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.
15. Central nervous system - storied construction. Localization of centers in the forebrain. Spinal cord - internal structure.

Prerequisites and co-requisites

Biology knowledge of secondary school level

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
written exam	51.0%	100.0%

Recommended reading

Basic literature	Literature required to pass the cours Sokołowska-Pituchowa J.: Anatomia człowieka. PWZL, Warszawa wyd. po 1988 Yokochi C., Rohen J,: Fotograficzny atlas anatomii człowieka. PZWL Warszawa 2004
Supplementary literature	not applicable
eResources addresses	

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

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