Sylabusy - Centrum Informatyczne U



ECTS code 13.3.0475	
13.3.0475	
type pierwszego stoppia	
form stacjonarne	
specialty chemia biomedyczna, chemia kosmetyków	
cialization wszystkie	
tutorial classes – 5 h	
student's own work – 40 h	
Total: 75 h - 3 ECTS	
Language of instruction	
polish	
Form and method of assessment and basic criteria for evelue examination requirements	ation or
Final evaluation	
Examination	
Assessment methods	
written exam with open questions	
The basic criteria for evaluation	
	points from
june winden exam.	
2	specialty chemia biomedyczna, chemia kosmetyków   ecialization wszystkie   3 ECTS credits   3 classes - 30 h   tutorial classes – 5 h student's own work – 40 h   Total: 75 h - 3 ECTS   Language of instruction   polish   Form and method of assessment and basic criteria for evelu   examination   Examination   Assessment methods   written exam with open questions

Skills and competences: The purpose of teaching the basics of anatomy and physiology is to familiarize the student with the structure of the human body and its functional aspects. Understanding the correct structure of the organism determines the understanding of the underlying pathological changes taking place within individual systems and organs. Students learn the structure of bones and their connections. The next stage of learning is to learn about the general structure and functions of the musculoskeletal system, circulatory system and peripheral nervous system, so that you can then start anatomy classes in a topographical system. Understanding the structure and function of the organs of the respiratory, digestive and genitourinary systems allows for a detailed look into the human body and also allows you to get acquainted with the spatial arrangement of organs in specific parts of the body. Classes in the subject ends with a team of issues in the macroscopic and functional anatomy of the central nervous system.

The student after completing the course should: have mastered basic information from descriptive anatomy and anatomical denominations. Should

Sylabusy - Centrum Informatyczne U



also know the structure of a human being in a living subject, and be able to connect organ building with their basic activity.

## **Course contents**

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.

TT. Endocine system – normones. TZ. Autonormic hervous system. A skin and its creat

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.

## **Bibliography of 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

The learning outcomes (for the field of study and	Knowledge
specialization)	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.
	Skills
	The student has a basic knowledge of descriptive anatomy and anatomical denominations, knows the structure of a human being in a living subject, and can connect organs with their basic activity.
	Social competence
	Understands the need for continuous training and personal development
Contact	
bdp@gumed.edu.pl	