

Module card

I. GENERAL INFORMATION	
THE WITELON STATE UNIVERSITY OF APPLIED SCIENCES IN LEGNICA DEPARTMENT of health sciences and physical culture	
Field	Emergency Medical Care
Module title	Anatomy
Language of lecture	english
ECTS points	4 points
Preliminary conditions:	Basic knowledge of biology at the secondary school level
II. Education aims	
Upon completion, the student acquires the ability to describe in general terms the various organs and parts of the human body, to determine their location on a living individual and to use basic anatomical nomenclature.	
III. Education outcomes	
Student knows and understands the structure of human body in topographic approach (upper and lower limbs, chest, abdomen, pelvis, back, neck, head) and functional approach (skeletal and articular system, muscular system, circulatory system, respiratory system, digestive system, urinary system, sexual systems, nervous system, sensory organs);	
IV. EDUCATIONAL METHODS	
Assessment method: credit for evaluation, written colloquia, final exam	
Student workload: 100 hours	
V. MODULE TYPE AND CONTENTS	
<p>Lecture and exercise:</p> <p>Anatomy as a practical science. Aims and objectives. Fundamentals of nomenclature. Variability in normal anatomy. History of anatomy.</p> <p>General osteology. Structure and function of the skeleton. Human skeleton - general structure.</p> <p>General myology. Internal structure of skeletal muscle. Classification of muscles in terms of shape, attachments, mechanism of action. Muscle mechanics.</p> <p>Location, structure and function of the heart. General structure of the circulatory system. Overview of the great vessels. Importance of elastic and muscular type arteries in maintaining normal blood pressure.</p> <p>Anatomy of the upper airways: nasal cavity, paranasal sinuses, larynx. Anatomy of the lower respiratory tract: tracheobronchial tree and lungs</p> <p>Gastrointestinal tract. Location and course of the digestive tract. Gastrointestinal system: glands of the digestive tract - salivary glands, liver, pancreas.</p> <p>The urinary system - urine producing structures. The role of the kidney in maintaining normal blood pressure and in the pathogenesis of hypertension. The urinary system - structures draining urine.</p> <p>Organisation of the nervous system. Structure and division of the brain. Nerve pathways and centres. Spinal cord. External structure of the brain. Meninges. Internal structure of the brain. Subcortical nuclei. White matter of hemispheres, division and function. Thalamus. Associative and spiracular pathways of the brain. Brainstem and cerebellum. Vascularisation of the brain.</p> <p>Peripheral nervous system. Somatic and autonomic systems. Nerve plexuses: cervical, brachial, lumbosacral. Sympathetic trunk and autonomic plexuses. Significance of damage to these structures in pathology.</p> <p>Chest - mediastinum. Classification and clinical significance of the various mediastinal compartments. Abdominal cavity - peritoneal space. General relationships of the peritoneum and abdominal organs.</p> <p>Jama brzuszna – przestrzeń zaotrzewnowa. Organizacja i rozmieszczenie narządów w przestrzeni zaotrzewnowej. Aorta i jej gałęzie, układ żył nieparzystych, układ żył wrotnej.</p>	

The pelvis - the peritoneal space. General relations of the peritoneum and pelvic organs. The pelvis and retroperitoneal space. Organisation and distribution of organs in the retroperitoneal space.

VII. ECTS POINT BALANCE SHEET - STUDENT'S WORKLOAD

Category	Student's workload
Contact hours	31
Participation in lectures	20
Participation in classes, workshops	10
Exam	1
Independent student's work	69
Preparation for the lecture	10
Preparation for the classes, workshops	12
Preparation for the test	12
Preparation for the exam	25
Preparing the project	10
Preparing multimedia presentation	
Total number of hours	100
ECTS points: 4	

VIII. Recommended literature

- 1.
- 2.
- 3.