

The Syllabus is compiled by:

PhD in Morphological Sciences (Morphology), Associate Professor, Stolyarov V.V. _____

Lecturer Voronin Y.S. _____

The Syllabus

Human Anatomy

Developed in accordance with Federal State Educational Standard:

Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the Ministry of Education and Science of the Russian Federation 12/08/2020 No. 988)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, 15.06.2023, Record No. 5

The Syllabus was approved by the department

Morphology and Physiology

Head of Department, Doctor of Medicine, Professor Stolyarov V.V. _____

1. COURSE OBJECTIVES

1.1	The aim of the course "Human Anatomy" is to acquire deep knowledge of anatomy and topography of organs and tissues of the human body as a whole, its constituent systems of organs and tissues on the basis of modern achievements of Macro - and Microscopic Anatomy, Physiology, Biology, taking into account the requirements of the clinical, practical medicine; the ability to use this knowledge in the subsequent study of other fundamental and clinical disciplines, as well as future practice of the doctor.
1.2	The aim is to study the shape and structure of the human body, to consider the principles of its structure in connection with the functions performed and the influence of the environment.

2. COURSE OVERVIEW

Course code (in curriculum):	Б1.О.04
2.1 Assumed background:	
2.1.1	Biology
2.2 Post-requisite courses and practice:	
2.2.1	Histology, Embryology, Cytology
2.2.2	Physical Education and Sports
2.2.3	Normal Physiology
2.2.4	Pathologic Anatomy
2.2.5	Pharmacology
2.2.6	Topographic Anatomy, Operative Surgery
2.2.7	Neurology, Medical genetics, Neurosurgery
2.2.8	Stomatology
2.2.9	Ophthalmology
2.2.10	Otorhinolaryngology
2.2.11	Forensic Medicine
2.2.12	Propedeutics of Internal Medicine
2.2.13	Obstetrics
2.2.14	Paediatrics, Children Infections
2.2.15	Traumatology, Orthopaedics
2.2.16	General Surgery

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

GPC-5.1: Knows the histological structure of organ tissues - knows how to differentiate them microscopically; the anatomy of the human body - the macroscopic structure and topography of organs and body parts; human physiology - the mechanisms of homeostasis regulation and the functional systems of the body in the normal condition

By the end of the course students must:

3.1 Know:	
3.1.1	- methods of anatomical studies and anatomical terms (Russian and Latin).
3.1.2	- anatomy of organs and systems, details of their structure, their main functions;
3.1.3	- interconnection of organs with each other, their projection on the surface of the body;
3.1.4	- the main stages of organ development (organogenesis);
3.1.5	- the main variants for the structure and malformations of organs.
3.2 Be able to:	
3.2.1	- use basic anatomical instruments (forceps, scalpel, etc).
3.2.2	- dissect: joints, muscles, blood vessels, nerves;

3.2.3	- palpate the basic bone formations for obtaining their topographic characteristics;
3.2.4	- palpate the main superficial arteries and find the place of their pressing to the bone formations;
3.2.5	- palpate the main groups of lymph nodes;
3.2.6	- demonstrate and correctly name the movements in the main joints of the human body;
3.2.7	- find and palpate the main muscular marks of the human body;
3.2.8	- determine the main anthropometric points and lines to describe the constitutional features of the body structure, to determine the boundaries of organs.
3.3 Have skills of:	
3.3.1	- anatomical examination technique;
3.3.2	- methods for determining the boundaries of organs;
3.3.3	- method of auscultation of heart valves.

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Topics /Class type	Term / Academic year	Academic hours	Competences	Literature	Interactive
	Section 1. Osteology - the study of bones; arthrology - the study of bone connections.					
1.1	Introductory lecture: subject, goals and methods of studying anatomy, its connection with related disciplines. Basic structure of the human body. Osteology is the study of bones. Skeleton functions. The chemical structure of the bone. Classification of bones. General arthrology. Types of bone connections. Classification of joints. Biomechanics of movements. Anatomy, development and age characteristics of the skull. Connections of the bones of the skull. /Lec/	1	12	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.2	1.Anatomical nomenclature. Planes, axes of the body. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.3	2.The structure of the rib. Chestbone. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.4	3.Bones of free upper limb: Humerus, Radius, Ulna and hand bones. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.5	4.Pelvic bones. Pelvis as a whole. Gender differences of the pelvis. The size of the pelvis (large and small). Bones of free lower limb: Femur, Shin bones, Patella, bones of the foot. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.6	5.General arthrosyndesmology. The connection between the vertebrae and the skull. Spinal column as a whole. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.7	6.Connection of the ribs to the vertebrae, the sternum, connection of the ribs to each other. Thorax as a whole. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	

1.8	7.Joints of the upper limb belt and the shoulder joint. Elbow joint, wrist joint, hand joints. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.9	8.Connection of pelvic bones. Hip joint. Knee joint. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.10	9.Connection of the bones of the lower leg. Arches of the foot. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.11	10.Final class on osteology. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.12	11.General overview of the skull. Skull bones: frontal, parietal, occipital. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.13	12.Ethmoid and sphenoid bone, their structure. Temporal bone and its components. Channels of the temporal bone. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.14	13.Bones of the facial skull (upper and lower jaws, malar bone, lacrimal, nasal bones, nose opener), their structure. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.15	14.Inner skull base. Outer skull base. Fossa of the skull. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.16	15.Structure of the orbit, nasal cavity. Bone basis of the oral cavity. Individual features of the skull. Connection of the skull bones. Temporomandibular joint. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.17	16.The final class on the skull. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
1.18	Preparation for oral survey and test. Mastering practical skills. /Self-study/	1	22	GPC-5.1	1.5 2.1 2.2 E2 E3	
	Section 2. Myology - the study of muscles.					
2.1	Anatomy, development and age characteristics of muscles. Muscle classification. Topographic formations of muscles in the human body. /Lec/	1	4	GPC-5.1	1.5 2.1 2.2 E2 E3	
2.2	17.Muscles and fasciae of the back, abdomen and thorax. The structure of the sheaths of the rectus abdominis muscle. White line of the abdomen. The inguinal canal. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
2.3	18.Muscles of neck, their functional anatomy. Fasciae of neck. The topography of the triangles of the neck. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
2.4	19.Muscles of the head, their functional anatomy. Fasciae of the head. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
2.5	20.Muscles of the shoulder girdle and shoulder, their functional anatomy. Structure of the Axilla (the armpit). Shoulder topography. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
2.6	21.Functional anatomy of the muscles of the forearm and hand. Forearm topography. Synovial sheaths of the hand tendons. Fasciae and topography of the upper limb. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
2.7	22.Muscles of the hip and thigh, their fasciae. Topography of the thigh. Femoral canal. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	

2.8	23.Muscles and fasciae of the shin and foot, their functional anatomy. Topography of the popliteal fossa, shin and foot. /Pr/	1	2	GPC-5.1	1.5 2.1 2.2 E2 E3	
2.9	24.The final class on the myology. /Pr/	1	2	GPC-5.1	1.4 1.5 2.1 2.2 E2 E3	
2.10	Preparation for oral survey and test. Mastering practical skills. /Self-study/	1	22	GPC-5.1	1.5 2.1 2.2 E2 E3	
2.11	Test /Test/	1	0	GPC-5.1	1.5 2.1 2.2 E2 E3	essay presentation
Section 3. Splanchnology (digestive system).						
3.1	1.Structure and development of internal organs. Functional anatomy of the digestive system. Functional anatomy and topography of the peritoneum in human ontogenesis. /Lec/	2	4	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
3.2	1.Anatomy of the digestive system: oral cavity. Lips, cheeks, hard and soft palate, pharynx, tongue. Teeth, large and small salivary glands. Pharynx. Lymphoid pharyngeal ring. /Pr/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
3.3	2.Esophagus. Anatomy of the stomach. Spleen. Anatomy of the small and large intestine. /Pr/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
3.4	3.Functional anatomy of the liver and pancreas. Peritoneum. Derivatives of the peritoneum. /Pr/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
3.5	4.Topography of the peritoneum. /Pr/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
3.6	5.The final class on the digestive system. /Pr/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
3.7	Preparation for oral survey and test. Mastering practical skills. /Self-study/	2	10	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
Section 4. Splanchnology (respiratory system).						
4.1	3.Functional anatomy of the respiratory system. /Lec/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
4.2	6.The respiratory system. The nasal cavity. Paranasal sinuses. Larynx: topography, cartilages, joints, ligaments. Larynx: muscles, elastic cone, laryngeal cavity. Voice apparatus. /Pr/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
4.3	7.Trachea, bronchi, tracheobronchial tree, lungs. Pleura, mediastinum. The boundaries of the lungs and pleura. /Pr/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
4.4	8.The final class on the respiratory system. /Pr/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	

4.5	Preparation for oral survey and test. Mastering practical skills. /Self-study/	2	6	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
	Section 5. Splanchnology (urinary system)					
5.1	4. Functional anatomy of the urinary system. Functional anatomy of the reproductive apparatus. /Lec/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
5.2	9. Overview of the urinary system. The structure of the kidneys, ureters, bladder. Male genital organs: testicle, epididymis, scrotum, vas deferens, seminal vesicles. Prostate. The ejaculatory ducts. Penis. Bulbourethral glands. Male urethra. /Pr/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
5.3	10. Female genitals: uterus, fallopian tubes. Ovary. Vagina. External female genitals. Female urethra. Breasts. The perineum: muscle and fasciae. /Pr/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
5.4	11. The final class on the urinary system. /Pr/	2	2	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
5.5	Preparation for oral discussion and test. Mastering practical skills. /Self-study/	2	6	GPC-5.1	1.1 1.4 2.1 2.2 E2 E3	
	Section 6. Neurology (The central nervous system)					
6.1	5. Introduction to the study of the nervous system. Embryogenesis of the nervous system. Functional anatomy of the spinal cord. The cerebrum. Cyto- and myeloarchitectonics of the cerebral cortex. Localization of functions in the cortex of the hemispheres. /Lec/	2	8	GPC-5.1	1.2 1.3 1.6 2.1 2.3 E2 E3	
6.2	12. Overview of the nervous system. The external structure of the spinal cord. The internal structure of the spinal cord. /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.3 E2 E3	
6.3	13. Cerebrum development, cerebral vesicles. Overview of the cerebrum, the output of 12 pairs of cranial nerves on the basis of the brain and from the skull. /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.3 E2 E3	
6.4	14. Medulla oblongata. Pons. Cerebellum. /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.3 E2 E3	
6.5	15. Midbrain. Isthmus rhombencephali. Fourth ventricle. Rhomboid fossa, its topography. The nuclei of the brain nerves, their localization. /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.3 E2 E3	
6.6	16. Interbrain (Diencephalon). Third ventricle. /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.3 E2 E3	
6.7	17. Cerebral hemispheres. The grooves and convolutions of the dorsolateral and basal surfaces of the hemispheres of the cerebrum. /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.3 E2 E3	

6.8	18.Grooves and convolutions of the medial surface of the hemispheres. Lateral ventricles. /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.3 E2 E3	
6.9	19.Basal ganglia, the white substance of the hemispheres of the cerebrum. The internal capsule, the fornix, the olfactory area (rhinencephalon). /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.3 E2 E3	
6.10	20.Cerebrum shells. Place of formation and outflow pathways of cerebrospinal fluid. /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.3 E2 E3	
6.11	21.Pathways of the spinal cord and cerebrum. Afferent pathways. /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.3 E2 E3	
6.12	22.Efferent pathways. Extrapyramidal system. /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.3 E2 E3	
6.13	23.The final class on the central nervous system. /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.2 2.3 E2 E3	
6.14	14.The final class on the 2nd term. /Pr/	2	2	GPC-5.1	1.2 1.3 1.6 2.1 2.2 2.3 E2 E3	
6.15	Preparation for tests. Writing of essays. /Self-study/	2	22	GPC-5.1	1.2 1.3 1.6 2.1 2.2 2.3 E2 E3	
6.16	Test. /Test/	2	0	GPC-5.1	1.1 1.2 1.3 1.4 1.6 2.1 2.2 2.3 E2 E3	essay presentation
6.17	Credit. /Credit /	2	0	GPC-5.1	1.1 1.2 1.3 1.4 1.6 2.1 2.2 2.3 E2 E3	Oral examination, practical skills
	Section 7. Angiology, the study of vessels					
7.1	Functional anatomy of the heart. Functional anatomy of the arterial system. Collateral circulation. Functional anatomy of the venous system. Functional anatomy of the lymphatic system. /Lec/	3	6	GPC-5.1	1.1 1.4 2.1 2.3 E1 E2 E3	
7.2	1.The heart. External and internal structure of the heart. Heart wall structure. Heart chambers and valve apparatus of the heart. Pericardium. The conducting system and innervation of the heart. /Pr/	3	2	GPC-5.1	1.1 1.4 2.1 2.3 E1 E2 E3	
7.3	2.The Mediastinum. Topography, boundaries of the heart. Places for heart valves auscultation. /Pr/	3	2	GPC-5.1	1.1 1.4 2.1 2.3 E1 E2 E3	
7.4	3.Aorta and its branches. General, external, internal carotid arteries. /Pr/	3	2	GPC-5.1	1.1 1.4 2.1 2.3 E1 E2 E3	

7.5	4.Subclavian, axillary, brachial arteries. /Pr/	3	2	GPC-5.1	1.1 1.4 2.1 2.3 E1 E2 E3	
7.6	5.Arteries of the forearm and hand. /Pr/	3	2	GPC-5.1	1.1 1.4 2.1 2.3 E1 E2 E3	
7.7	6.Thoracic and abdominal aorta, its branches. /Pr/	3	2	GPC-5.1	1.1 1.4 2.1 2.3 E1 E2 E3	
7.8	7.General, external, internal iliac arteries. /Pr/	3	2	GPC-5.1	1.1 1.4 2.1 2.3 E1 E2 E3	
7.9	8.Femoral and popliteal arteries. Artery of the shin and foot. /Pr/	3	2	GPC-5.1	1.1 1.4 2.1 2.3 E1 E2 E3	
7.10	9.System of the superior vena cava, its inflows and anastomoses. /Pr/	3	2	GPC-5.1	L1.1 L1.4 L2.1 L2.3 E1 E2 E3	
7.11	10.Cava-caval and portacaval anastomoses. Fetal blood circulation. /Pr/	3	2	GPC-5.1	L1.1 L1.4 L2.1 L2.3 E1 E2 E3	
7.12	11.The lymphatic system of the head, neck, chest, upper limb, lower limb, pelvis. Lymphatic ducts, trunks, vessels, nodes. /Pr/	3	2	GPC-5.1	1.1 1.4 2.1 2.3 E1 E2 E3	
7.13	12.The final class on angiology. /Pr/	3	2	GPC-5.1	1.1 1.4 2.1 2.3 E1 E2 E3	
7.14	Preparation for oral survey and test. Mastering practical skills. /Self-study/	3	2	GPC-5.1	1.1 1.4 2.1 2.3 E1 E2 E3	
	Section 8. Neurology (peripheral nervous system)					
8.1	Peripheral nervous system. Spinal nerves. /Lec/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
8.2	13.Peripheral nervous system. Spinal nerves. Cervical plexus. Brachial plexus, its short branches. /Pr/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	

8.3	14. Long branches of the brachial plexus, their topography, area of innervation. /Pr/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
8.4	15. Intercostal nerves. Topography and areas of innervation of the branches of the lumbar plexus. /Pr/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
8.5	16. Topography and areas of innervation of the branches of the sacral plexus. /Pr/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
8.6	17. The final class on the peripheral nervous system. /Pr/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
8.7	Preparation for oral survey and test. Mastering practical skills. /Self-study/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
	Section 9. Neurology (The cranial nerves)					
9.1	Peripheral nervous system. Cranial nerves. Vegetative nervous system Features of the autonomic innervation of individual internal organs. /Lec/	3	6	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
9.2	18. Cranial Nerves III, IV, VI and the first branch of trigeminal nerve. /Pr/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
9.3	19. The second, third branches of the trigeminal nerve, the areas of their innervation. Parasympathetic nodes located along the branches of the trigeminal nerve. /Pr/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
9.4	20. VII, IX pairs of cranial nerves, their branches, areas of innervation. /Pr/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
9.5	21. X, XI, XII pairs of cranial nerves, their branches, areas of innervation. /Pr/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
9.6	22. The sympathetic part of the autonomic nervous system. /Pr/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
9.7	23. Parasympathetic part of the autonomic nervous system. /Pr/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
9.8	24. The final lesson on cranial nerves and the autonomic nervous system. /Pr/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
9.9	Preparation for oral survey and test. Mastering practical skills. /Self-study/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	

Section 10. Sense organs.						
10.1	8. Functional anatomy of the sense organs. Visual pathway. Auditory pathway. Organs of smell and taste. /Lec/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
10.2	Preparation for tests. Writing of essays. /Self-study/	3	2	GPC-5.1	1.2 1.3 2.1 2.3 E2 E3	
10.3	Test. /Test/	3	0	GPC-5.1	1.1 1.2 1.3 1.4 2.1 2.2 2.3 E2 E3	essay presentation
10.4	Exam. /Exam/	3	36	GPC-5.1	1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 E1 E2 E3	oral exam, practical skills test

5. ASSESSMENT TOOLS

5.1. Assessment tools for midterm assessment

Presented by a single document

5.2. Assessment tools for diagnostic testing

Presented by a single document

6. COURSE (MODULE) RESOURCES

6.1. Recommended Literature

6.1.1. Core

	Authors	Title	Publish., year	Quantity
1.1	L. L. Kolesnikov, D. B. Nikitiuk, S. V. Klochkova, I. G. Stelnikova	Uchebnick anatomii cheloveka. In 3 vol. Vol. 2. Splanchnology and cardiovascular system: Textbook.	Moscow: GEOTAR-Media, 2019, electronic resource	1
1.2	L. L. Kolesnikov, D. B. Nikitiuk, S. V. Klochkova, I. G. Stelnikova	Uchebnick anatomii cheloveka. In 3 vol. Vol. 3. Nervous system. Esthesiology: Textbook.	Moscow: GEOTAR-Media, 2019, electronic resource	1
1.3	L. L. Kolesnikov, D. B. Nikitiuk, S. V. Klochkova, I. G. Stelnikova	Uchebnick anatomii cheloveka. In 3 vol. Vol. 3. Nervous system. Esthesiology: Textbook.	Moscow: GEOTAR-Media, 2020, electronic resource	1
1.4	L. L. Kolesnikov, D. B. Nikitiuk, S. V. Klochkova, I. G. Stelnikova	Uchebnick anatomii cheloveka. In 3 vol. Vol. 2. Splanchnology and cardiovascular system: Textbook.	Moscow: GEOTAR-Media, 2020, electronic resource	1
1.5	Kolesnikov L.L., Nikitiuk D.B., Klochkova S.V., Stelnikova I.G.	Uchebnick anatomii cheloveka. In 3 vol. Vol. 1. Locomotor apparatus: Textbook.	Moscow: GEOTAR-Media, 2020, electronic resource	1

1.6	Rybakov A. G., Kadyrov A. S., Parshin A. A.	Anatomy of the central nervous system: manual for international medical students taught in the English language.	Saransk: MSU named after N.P. Ogarev, 2020, electronic resource	1
6.1.2. Supplementary				
	Authors	Title	Publish., year	Quantity
2.1.	Drake R. L., Vogl A. Wayne, Mithell A. W. M.	Gray's Atlas of Anatomy.	Philadelphia: Churchill Livingstone Elsevier, cop. 2015 electronic resource	31
2.2.	Prives M., Lysenkov N., Bushkovich V.	Human Anatomy.Vol.1:The Weight-Bearing and Locomotor System, the Science of the Viscera, the Science of the Organs of Internal Secretion.	electronic resource, 2014	2
2.3.	Prives M., Lysenkov N., Bushkovich V.	Human Anatomy.Vol.2:The Science of the Vessels, the Science of the Nervous System, the Science of the Sensory Organs.	electronic resource, 2014	2
6.2. Internet resources				
E1	http://www.angiolsurgery.org/			
E2	http://www.freemedicaljournals.com			
E3	http://www.scopus.com/			
6.3.1 Software				
6.3.1.1	Microsoft Office			
6.3.2 Information Referral systems				
6.3.2.1	http://www.garant.ru			
6.3.2.2	http://www.consultant.ru			

7 . MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE (MODULE)	
7.1	1. The classroom for lectures is equipped with a multimedia projector, a portable screen, a laptop, standard educational furniture: tables, chairs.
7.2	2. The classroom for practical classes, group and individual consultations, formative and midterm assessment, for self-study is equipped with: a teacher's desk, study tables, electrified stands for myology, tables for all sections of human anatomy, a blackboard, a multimedia installation, a screen for multimedia installation, a computer.
7.3	3. The classroom for practical classes, group and individual consultations, formative and midterm assessment, for self-study is equipped with: a teacher's desk, study tables, electrified stands for osteology and X-ray anatomy, tables for all sections of human anatomy, a blackboard, a multimedia installation, a screen for multimedia installation.
7.4	4. Anatomical table for virtual dissection.