

## **GOALS AND OBJECTIVES OF MASTERING THE DISCIPLINE**

**Goals of mastering the discipline:** formation of students' knowledge of human anatomy; the structure of both the body as a whole and individual organs and systems based on modern achievements; formation of skills to use the acquired knowledge in the subsequent study of other fundamental and clinical disciplines, as well as in the future professional activity of a doctor.

- **Tasks:**students' study of the structure, functions and topography of the organs of the human body, anatomical and topographic relationships of organs, individual and age-related features of the structure of the human body, including the prenatal period of development (organogenesis), variants of the anatomical structure of individual organs and anomalies of their development;
- formation in students of knowledge about the interdependence and unity of structure and function of both individual organs and the body as a whole, about the relationship of the body with changing environmental conditions, the influence of environmental, genetic factors, the nature of work, profession, physical culture and social conditions on the development and structure of the human body;
- formation of an integrated approach among students when studying the anatomy and topography of organs and their systems; a synthetic understanding of the structure of the human body as a whole as the interconnection of individual parts of the body; ideas about the importance of fundamental anatomical research for medicine;
- developing in students the ability to navigate the complex structure of the human body, to accurately and accurately find and determine the location and projection of organs and their parts on the surface of the body.

- education of students, guided by the traditional principles of humanism and mercy, respectful and careful attitude towards the object being studied - the organs of the human body, the corpse; instilling highly moral standards of behavior in the section halls of a medical university.

## **I. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE**

The process of studying the discipline is aimed at developing the following competencies in accordance with the Federal State Educational Standard of Higher Education and the EP of Higher Education in this specialty:

### **general professional(OPK):**

- capable of assessing morphofunctional states in the human body to solve professional problems (OPK-5).

## **II. THE PLACE OF DISCIPLINE IN THE STRUCTURE OF EP VO**

The academic discipline "Anatomy" belongs to the basic part of the disciplines.

## **III. CONTENT AND STRUCTURE OF DISCIPLINE**

The complexity of the discipline in Z 11 \_\_\_hour 396

### **4.1. Sections of the discipline studied in \_3\_\_\_\_\_semesters**

Section no.	Section name	Number of hours					
		Total	Independent work under the supervision of a teacher				SRS
			L	WIT H	ETC	LR	
Semester 1							
1	<b>Musculoskeletal system</b>	108	16		48		44
	<b>Total</b>	108/3	16		48		44
Interim certification form (test/test with assessment/exam)		<b>Test</b>					
Semester 2							
2	<b>Splanchnology</b>	56	8		28		thirty
3	<b>Cordially-vascular system</b>	68	8		36		34

	<b>Total</b>	144/4	16		64		64
Form of intermediate certification (test/test with assessment/exam)		<b>Test</b>					
Semester 3							
4	<b>Centralnervous system</b>	49	8		21		20
5	<b>Peripheralnervous system</b>	43	6		21		16
6	<b>Sense organs</b>	16	2		6		8
<b>Total</b>		108/3	16		48		44
Interim certification form (test/test with assessment/exam)		<b>exam - 36 hours</b>					
<b>TOTAL:</b>		<b>396</b>	<b>48</b>		<b>160</b>		<b>152</b>

**SRS**- independent work of students

**L**– lectures

**WITH**– seminars (in accordance with the RUP)

**LR** –laboratory work (in accordance with the RUP)

**ETC**– practical exercises (in accordance with the RUP)

## 4.2. Contact work

### Lectures

No. section	No. lectures	Lecture topics	Number of hours
<b>Semester 1</b>			
<b>Musculoskeletal</b>	1	The main stages of the historical development of anatomical science. Introduction to anatomy.	2
	2	Functional anatomy of the trunk skeleton.	2
	3	Functional anatomy of the skull.	2
	4	Functional anatomy of the limb skeleton.	2
	5	Types of bone joints. Radiation anatomy of the skeleton.	2
	6	General information about the muscular system. Functional anatomy of the trunk muscles. Topographic anatomy of the back, chest and abdomen. Anterior abdominal wall	2

<b>apparatus</b>	7	Functional anatomy of the muscles of the head and neck. Fascia of the head. Triangles, fascia and interfascial spaces of the neck. Review of movements in the temporomandibular joint and joints of the cervical spine.	2
	8	Functional anatomy of the muscles of the upper limbs. Topographic anatomy of the upper limbs. Review of joint movements. Functional anatomy of the muscles of the lower extremities. Topographic anatomy of the lower extremities. Review of movements in the joints of the limbs.	2
<b>Semester 2</b>			
<b>Splanchnology</b>	1	General concepts about internal organs and their distribution among systems and apparatuses in connection with the function performed. Ontogenesis, developmental anomalies, general morphology, age-related characteristics and functional anatomy of the digestive system.	2
	2	Ontogenesis, developmental anomalies, general morphology, age-related characteristics and functional anatomy of the respiratory system, diaphragm. The chest cavity and its walls. Pleural cavities.	2
	3	Ontogenesis, developmental anomalies, general morphology, age characteristics and functional anatomy of the urinary and reproductive systems.	2
	4	Ontogenesis, developmental anomalies, general morphology, age characteristics and functional anatomy of the endocrine glands.	2
	5	Morphofunctional characteristics of serous cavities. Peritoneum, visceral and parietal layers, bursae, omentum. Projection of organs onto the anterior abdominal wall.	2
<b>The cardiovascular system</b>	6	Functional anatomy of the heart. Conducting system of the heart, its blood supply and innervation. Projection and listening locations of heart valves	2
	7	Functional anatomy of the arterial system. Places of compression of the arteries.	2
	8	Functional anatomy venous systems. Anastomoses. Features of fetal blood circulation. Functional anatomy of the lymphatic system. Outflow of lymph from internal organs.	2
<b>Semester 3</b>			
<b>central nervous system</b>	1	Functional anatomy, phylogeny and ontogenesis of the central nervous system. External and internal structure of the spinal cord.	2
	2	Functional anatomy of the brain stem.	2

	3	Functional anatomy final brain Shells head brain Circulationcerebrospinal fluid.	2
	4	Localization of functions in the cerebral cortex brain Conducting tracts of the spinal and brain brain	2
<b>Sense organs</b>	5	Functional anatomy organs feelings.Conducting paths of analyzers.	2
<b>Peripheralswh t nervous system</b>	6	Topography cores cranial nerves.Functional anatomy of I-XII pairs of cranial nerves.	2
	7	Formation of spinal nerves, branches. Functional anatomy of the cervical, brachial, lumbar, sacral, and coccygeal plexuses. Innervation of muscles and skin.	2
	8	Functional anatomy of the autonomic nervous system. Centers, branches, nodes, plexuses of the sympathetic and parasympathetic departments. Innervation of internal organs. Zakharyin zones–Geda.	2
<b>Total</b>			<b>48</b>

### Practical work

No. section	No . PR	Topics of seminars, practical work	Number of hours	Forms of current control
<b>Semester 1</b>				
<b>Musculoskeletal system</b>	1	Anatomical terminology. Axes and planes. General information about the skeleton. Spinal column. Cervical and chest vertebrae	3	<i>interview</i>
	2	Spinal column. Features of the structure of the lumbar, sacral and coccygeal vertebrae. The structure of the ribs and sternum.	3	<i>interview testing</i>
	3	<b>Control survey:</b> structure bones torso. Bones top And lower limbs.	3	<i>oral survey interview testing</i>
	4	<b>Quiz:</b> structure of the bones of the limbs. Bones of the brain skull. Frontal, occipital, parietal and sphenoid bones.	3	<i>oral survey interview testing</i>
	5	Bones brain skulls Lattice Andtemporal bone. Bones of the facial skull.	3	<i>interview testing</i>

No. section	No . PR	Topics of seminars, practical work	Number of hours	Forms of current control
	6	<b>Quiz:</b> structure of the skull bones. External and internal base of the skull. Vertical, facial, lateral and occipital norm.	3	<i>oral survey interview testing</i>
	7	<b>Quiz:</b> skull as a whole. Control testing: bone structure General information about bone joints. Connection of the bones of the body.	3	<i>oral questioning, solving situational problems testing</i>
	8	<b>Quiz:</b> general arthrology and connection of the bones of the body.(2) Connections of the bones of the skull and the skull with the spine.	3	<i>oral survey interview solving situational problems testing</i>
	9	<b>Quiz:</b> connections between the bones of the skull and torso. Connection of the bones of the shoulder girdle, forearms and hands. Shoulder and elbow joints. Joints of the hand.	3	<i>oral survey interview testing</i>
	10	<b>Quiz:</b> connections of the bones of the upper limb. Connection of the pelvic bones. Pelvis as a whole. Hip joint. Knee-joint. Connection of the leg bones. Ankle joint. Connection of the bones of the foot.	3	<i>oral survey interview solving situational problems testing</i>
	eleven	<b>Quiz:</b> connections of the bones of the lower limb. <b>Control testing:</b> connections of bones. Muscles and topography of the back, chest and abdomen.	3	<i>oral survey interview testing</i>
	12	<b>Quiz:</b> muscles and topography of the back, chest, abdomen. Muscles and topography of the head and neck.	3	<i>solving situational problems oral survey testing</i>
	13	<b>Quiz:</b> muscles and topography of the head and neck (2). Muscles and topography of the upper limb	3	<i>oral survey interview testing</i>
	14	<b>Quiz:</b> muscles and topography of the upper limb.(2) Muscles and topography of the lower limb.	3	<i>solving situational problems oral survey interview testing</i>

No. section	No . PR	Topics of seminars, practical work	Number of hours	Forms of current control
<b>Musculoskeletal system</b>	15	<b>Quiz:</b> muscles and topography of the lower limb. (2) Functional anatomy of the musculoskeletal system (muscle function and joint movements)	3	<i>oral survey interview testing</i>
	16	<b>Control survey:</b> Job muscles Andmovements in the joints. <b>Control testing:</b> myology <b>Test</b>	3	<i>written and oral surveys testing</i>
<b>Total:</b>			<b>48</b>	
<b>Semester 2</b>				
<b>Splanchnology</b>	1	General information about the digestive system. Structure of the oral cavity.	2	<i>interview</i>
	2	Structure of the pharynx, esophagus, stomach.	2	<i>interview testing</i>
	3	Small and large intestine.	2	<i>interview testing</i>
	4	Liver and pancreas.	2	<i>oral survey testing</i>
	5	<b>Quiz:</b> structure of the digestive system. Projection of organs onto the anterior abdominal wall. Peritoneum.	2	<i>oral survey interview testing</i>
	6	<b>Quiz:</b> structure of the peritoneum. General information about the structure of the respiratory system. External nose, nasal cavity. Larynx.	2	<i>solving situational problems oral survey interview testing</i>
	7	Trachea, bronchi, lungs.	2	<i>interview testing</i>
	8	Pleura. Diaphragm.	2	<i>interview testing</i>
<b>Splanchnology</b>	9	<b>Quiz:</b> structure of the respiratory system. Diaphragm. Kidneys, ureters, bladder. Urethra	2	<i>oral survey testing interview</i>
	10	<b>Quiz:</b> structure of the organs of the urinary system. Male genital organs.	2	<i>interview solving situational problems testing</i>
	eleven	<b>Control survey:</b> structure men'sgenitals. Female genital organs.	2	<i>solving situationaltasks oral questioning testing</i>
	12	<b>Control survey:</b> structure women'sgenitals. Male and female crotch.	2	<i>interview oral survey testing</i>

No. section	No. PR	Topics of seminars, practical work	Number of hours	Forms of current control
	13	<b>Quiz:</b> structure of the male and female perineum. Anatomy of the endocrine glands.	2	<i>intervieworal survey abstract testing report</i>
	14	<b>Control survey:</b> anatomy glandsinternal secretion. <b>Control testing:</b> splanchnology	2	<i>testing interview</i>
<b>The cardiovascular system</b>	15	Functional and clinical anatomy of the heart.	2	<i>interview testing</i>
	16	Conduction system of the heart. Heart vessels. Pericardium. Mediastinum.	2	<i>interview testing</i>
	17	<b>Quiz:</b> structure of the heart, mediastinum. Places to listen to heart valves. Arteries of the pulmonary circulation. Aorta, parts, topography. Brachiocephalic trunk.	2	<i>testing solving situational problems interview testing</i>
	18	General, external and internal carotid arteries.	2	<i>interview testing</i>
	19	Subclavian artery. Blood supply brain.	2	<i>interview testing</i>
<b>Heart and -vascular system</b>	20	<b>Quiz:</b> arteries of the head and neck. Blood supply to the brain.	2	<i>oral survey interview testing</i>
	21	Axillary artery. Arteries of the free upper limb.	2	<i>interview testing</i>
	22	<b>Control survey:</b> structure arteriesupper limb. Thoracic and abdominal aorta. Parietal and visceral branches.	2	<i>intervieworal survey testing</i>
	23	<b>Control survey:</b> structure arteries of the body. Iliac arteries. Pelvic arteries.	2	<i>intervieworal survey testing</i>
	24	<b>Quiz:</b> iliac arteries, arteries of organs and pelvic walls. Arteries of the free lower limb.	2	<i>oral survey interview testing</i>
	25	<b>Control survey:</b> structure arterieslower limb. <b>Control testing:</b> anatomy of the heart and arterial system.	2	<i>oral survey testing</i>
	26	Systems of the superior and inferior vena cava.	2	<i>interview testing</i>



No. section	No . PR	Topics of seminars, practical work	Number of hours	Forms of current control
	27	Portal vein. Caval-caval anastomoses. Porto-caval anastomoses.	2	<i>interview solving situational problems testing</i>
	28	Fetal circulation.	2	<i>interview testing</i>
	29	<b>Quiz:</b> structure of the venous system. General information about the structure and functions of the lymphatic system. Organs of hematopoiesis and immune system.	2	<i>intervieworal survey testing</i>
	thirty	Lymphatic vessels and nodes of the body, neck, head and limbs. The drainage of lymph from organs and parts of the body.	2	<i>oral questioning, solving situational problems testing</i>
	31	<b>Quiz:</b> structure of the organs of the lymphatic, immune and hematopoietic systems. Blood supply to organs, venous and lymphatic drainage from organs.	2	<i>intervieworal survey testing</i>
	32	<b>Quiz:</b> blood supply to organs, venous and lymphatic drainage from organs. <b>Control testing:</b> venous and lymphatic systems. <b>Test</b>	2	<i>oral questioning, solving situational problems testing</i>
<b>Total</b>			<b>64</b>	
<b>Semester 3</b>				
<b>Central nervous system</b>	1	General information about the nervous system. External and internal structure of the spinal cord. Topography of the spinal cord. Somatic reflex arc.	3	<i>testing interview</i>
	2	<b>Quiz:</b> structure of the spinal cord. Medulla. Hindbrain.	3	<i>oral survey interview testing</i>
	3	IV ventricle. Diamond-shaped fossa. Isthmus of the rhombencephalon.	3	<i>interview testing</i>
	4	<b>Quiz:</b> structure of brain parts, rhombencephalon derivatives. Midbrain. Diencephalon.	3	<i>oral survey interview testing</i>

No. section	No. PR	Topics of seminars, practical work	Number of hours	Forms of current control
	5	<b>Quiz:</b> structure of the middle and intermediate parts of the brain. Finite brain. Hemispheres of the cerebrum, cloak. Localization of functions in the cerebral cortex. Sinuses of the dura mater. Arterial and venous vessels of the brain.	3	<i>oral survey interview testing</i>
	6	<b>Quiz:</b> structure of the telencephalon and localization of functions in the cerebral cortex. (2) Finite brain. Olfactory brain, basal ganglia, topography of white and gray matter. Lateral ventricles Meninges of the brain. Circulation of cerebrospinal fluid.	3	<i>oral survey interview testing</i>
	7	<b>Quiz:</b> structure of the telencephalon and meninges. (2) Control testing: central nervous system Conducting pathways of the central nervous system.	3	<i>oral survey testing interview</i>
	8	<b>Quiz:</b> pathways of the central nervous system. Organ of vision. Organ of smell and taste.	3	<i>oral and written surveys interview testing</i>
<b>Sense organs</b>	9	<b>Quiz:</b> organ of vision, organ smell and taste. Outer, middle and inner ear. Leather	3	<i>oral survey interview testing</i>
<b>Peripheral nervous system</b>	10	<b>Quiz:</b> structure of the organ of hearing and balance, skin. <b>Control testing:</b> sensory organs Anatomy of cranial nerves (1-6 pairs). Innervation of the skin and muscles by cranial nerves	3	<i>oral survey interview testing</i>
	eleven	<b>Quiz:</b> anatomy of cranial nerves 1-6 pairs. Anatomy of cranial nerves (7-12 pairs). Innervation of the skin and muscles by cranial nerves	3	<i>oral survey interview testing</i>
	12	<b>Quiz:</b> anatomy of cranial nerves 7-12 pairs. Spinal nerves. Cervical plexus. Brachial plexus. Intercostal nerves. Innervation of muscles by spinal nerves by groups	3	<i>interview oral survey testing</i>

No. section	No. PR	Topics of seminars, practical work	Number of hours	Forms of current control
<b>Peripheral nervous system</b>	13	<b>Control survey:</b> structure cervical, brachial plexus, intercostal nerves. (2) Lumbar plexus. Sacral plexus. Coccygeal plexus. Innervation muscles spinal nerves by groups	3	<i>oral survey interview testing</i>
	14	<b>Quiz:</b> structure of the lumbar, sacral, coccygeal plexuses. (2) Sympathetic and parasympathetic divisions of the autonomic nervous system.	3	<i>oral survey testing</i>
	15	Autonomic innervation of organs, glands, vessels	3	<i>interview testing</i>
	16	<b>Quiz:</b> structure of the autonomic nervous system and innervation of organs. (2) Control testing: peripheral nervous system	3	<i>oral survey testing</i>
<b>Total</b>			<b>48</b>	

### 4.3. Independent work of students

No. section	Type of independent work of students	Quantity hours	Forms of current control
<b>Semester 1</b>			
Musculoskeletal system	Working with drugs; Solving situational problems	24	tests, tasks
	Preparation for current control; Reports, messages	12	reports, quiz
	Preparation for intermediate control	8	interview
<b>Total</b>		<b>44</b>	
<b>Semester 2</b>			
Splanchnology	Working with drugs; Solving situational problems	thirty	tests, tasks
The cardiovascular system	Preparation for current control; Reports, messages	22	reports, quiz
	Preparation for intermediate control	12	interview
<b>Total</b>		<b>64</b>	

No. section	Type of independent work of students	Quantity hours	Forms of current control
<b>Semester 3</b>			
CNS	Working with drugs; Solving situational problems	20	tests, tasks
PNS	Preparation for current control; Reports, messages.	12	reports quiz
Sense organs	Preparation for intermediate control	12	interview
<b>Total</b>		<b>44</b>	

#### **IV. ASSESSMENT FUND FOR CURRENT CONTROL AND INTERMEDIATE CERTIFICATION**

The fund of assessment tools for determining the level of development of competencies as a result of mastering the discipline is an appendix to the work program.

#### **V. EDUCATIONAL AND METHODOLOGICAL ENSURING DISCIPLINE**

##### **6.1. Printed publications**

1. Weight gain M.G. Human anatomy: textbook / M.G. Prives, N.K. Lysenkov, V.N. Bushkovich. – St. Petersburg: Hippocrates, 2002. -704 p.
2. Gain M.G. Human anatomy: textbook / M.G. Prives, N.K. Lysenkov, V.N. Bushkovich. – St. Petersburg: SPbMAPO, 2014. – 720 p.
3. Gaivoronsky I.V. Normal human anatomy T.1: textbook. In 2 volumes / I.V. Gaivoronsky. – St. Petersburg: SpetsLit, 2016. – 567 p.
4. Gaivoronsky I.V. Normal human anatomy T.2: textbook. In 2 volumes / I.V. Gaivoronsky. – St. Petersburg: SpetsLit, 2016. – 452 p.
5. Atlas of human anatomy T. 1.: The doctrine of bones, joints of bones and muscles.: in 4 volumes: study. allowance for medical universities / R.D. Sinelnikov, A.Ya. Sinelnikov. - M.: New Wave, 2007. – 344 p.
6. Atlas of human anatomy T. 2.: The doctrine of the viscera and endocrine glands.: in 4 volumes: study. allowance for medical universities / R.D. Sinelnikov, A.Ya. Sinelnikov. - M.: New Wave, 2007.– 248 p.
7. Atlas of Human Anatomy T. 3.: The doctrine of blood vessels and lymphoid organs.: in 4 volumes: textbook. allowance for medical universities / R.D. Sinelnikov, A.Ya. Sinelnikov. - M.: New Wave, 2008.– 216 p.
8. Atlas of human anatomy T. 4.: The doctrine of the nervous system and sensory organs.: in 4 volumes: study. allowance for medical universities / R.D. Sinelnikov, A.Ya. Sinelnikov. - M.: New Wave, 2010. – 311 p.
9. Cranial nerves: textbook. allowance / E.V. Chaplygina, O.A. Kaplunova, I.V. Sankova [and others]. – Rostov n/a: Publishing house of Rostov State Medical University, 2015.– 86 p.
10. Collection of textbooks - method. materials on anatomy for students. LPF / E.V. Chaplygina, O.A. Kaplunova, A.V. Markevich et al. – Rostov n/a: RostSMU, 2017.– 124 p.

11. Human anatomy. Movement apparatus: Atlas-manual for medical universities / E.V. Chaplygina, O.A. Kaplunova, A.A. Shvyrev [and others]. – Rostov n/d: Publishing house Rost State Medical University, 2018.– 172 p. Access from EUB RostSMU.
12. Human anatomy. Nervous system: atlas-manual for medical universities / E.V. Chaplygina, O.A. Kaplunova, A.A. Shvyrev [and others]. – Rostov n/a: Publishing house Rost State Medical University, 2018.– 164 p. Access from EUB RostSMU.
13. Human anatomy. Splanchnology: Atlas-manual for students. medical universities: / E.V. Chaplygina, O.A. Kaplunova, A.A. Shvyrev [and others]. - Rostov n/d: Publishing house Rost State Medical University, 2018. –130 p. Access from EUB RostSMU.
14. Human anatomy. Angiology: Atlas-manual: textbook for students. honey. universities / E.V. Chaplygina, O.A. Kaplunova, A.A. Shvyrev [and others]. - Rostov n/a: Publishing house Rost State Medical University, 2018.– 120 p. Access from EUB RostSMU.
15. Spinal nerves: textbook / E.V. Chaplygina, O.A. Kaplunova, O.T. Vartanova [and others]. – Rostov n/a: Publishing house of Rostov State Medical University, 2015. – 64 p.

## 6.2. . List of Internet resources for the 2023-2024 academic year

ELECTRONIC EDUCATIONAL RESOURCES		Access to the resource
<b>Electronic library RostSMU.</b> – URL: <a href="http://109.195.230.156:9080/opac/">http://109.195.230.156:9080/opac/</a>		Access is not limited
<b>Student Advisor</b> [Kits: "Medicine. Healthcare. IN"; "Medicine. Healthcare. SPO"; "Psychological Sciences"]: Electronic library system. – Moscow: LLC "Polytekhresurs" - URL: <a href="https://www.studentlibrary.ru">https://www.studentlibrary.ru</a> + opportunities for inclusive education		Unlimited access
<b>Scientific electronic library eLIBRARY.</b> - URL: <a href="http://elibrary.ru">http://elibrary.ru</a>		Open access
<b>National Electronic Library.</b> - URL: <a href="http://neb.rf/">http://neb.rf/</a>		Access from computers libraries
<b>Springer Nature database.</b> - URL: <a href="https://link.springer.com/">https://link.springer.com/</a> via IP addresses of RostSMU and remotely after registration, remotely via RFBR CIAS <a href="https://kias.rfbr.ru/reg/index.php(National project)">https://kias.rfbr.ru/reg/index.php(National project)</a>		Unlimited access
<b>Wiley Online Library</b> /JohnWiley&Sons. - URL: <a href="http://onlinelibrary.wiley.com">http://onlinelibrary.wiley.com</a> via IP addresses of RostSMU and remotely after registration (National Project)		Access limited
<b>Wiley.Full text collection electronic Medical magazines Sciences Journal Backfile:</b> archive. – URL: <a href="https://onlinelibrary.wiley.com/By">https://onlinelibrary.wiley.com/By</a> IP addresses RostGMUi remotelyafter registration (National Project)		Lifetime subscription
<b>Sage Publication:</b> [BookCollections full-text e-book collection]. – URL: <a href="https://sk.sagepub.com/books/discipline">https://sk.sagepub.com/books/discipline</a> via IP addresses RostSMU (National Project)		Lifetime subscription
<b>Ovid Technologies:</b> [Full-text archived collection of Lippincott Williamsand Wilkins Archive Journals]. – URL: <a href="https://ovidsp.ovid.com/autologin.cgi">https://ovidsp.ovid.com/autologin.cgi</a> by IP addresses of RostSMU (National Project)		Lifetime subscription
<b>Wiley:</b> official website; section "Open Access" / John Wiley & Sons. – URL: <a href="https://authorservices.wiley.com/open-research/open-access/browse-journals.html">https://authorservices.wiley.com/open-research/open-access/browse-journals.html</a>		Content open access
<b>Russian education. Single window of access:</b> federal portal. - URL: <a href="http://www.edu.ru/">http://www.edu.ru/</a> . – New educational environment.		Open

		access
	<b>Federal Center for Electronic Educational Resources.</b> - URL: <a href="http://srtv.fcior.edu.ru/">http://srtv.fcior.edu.ru/</a>	Open access
	<b>Electronic Library of the Russian Foundation for Basic Research(RFBR).</b> - URL: <a href="http://www.rfbr.ru/rffi/ru/library">http://www.rfbr.ru/rffi/ru/library</a>	Open access
	<b>Federal Electronic Medical Library of the Russian Ministry of Health.</b> - URL: <a href="https://femb.ru/femb/">https://femb.ru/femb/</a>	Open access
	<b>Cochrane Library:</b> official website; chapter "OpenAccess". - URL: <a href="https://cochranelibrary.com/about/open-access">https://cochranelibrary.com/about/open-access</a>	Content open access
	<b>Cochrane Russia:</b> Russian department Cochranecooperation / RMANPO. – URL: <a href="https://russia.cochrane.org/">https://russia.cochrane.org/</a>	Content open access
	<b>Webmedinfo.ru:</b> website [open information and educational medical resource]. - Moscow. - URL: <a href="https://webmedinfo.ru/">https://webmedinfo.ru/</a>	Open access
	<b>Univadis from Medscape:</b> international honey. portal. - URL: <a href="https://www.univadis.com/">https://www.univadis.com/</a> [Regularly updated database of unique information and educational medical resources].	free registration
	<b>Med-Edu.ru:</b> medical educational video portal. - URL: <a href="http://www.med-edu.ru/">http://www.med-edu.ru/</a> . Free registration.	Open access
	<b>DoctorSPB.ru:</b> information-reference portal about medicine [for students and doctors]. - URL: <a href="http://doctorspb.ru/">http://doctorspb.ru/</a>	Open access
	<b>PubMed:</b> electronic search engine [on biomedical research of the National Center for Biotechnology Information (NCBI, USA)]. - URL: <a href="https://pubmed.ncbi.nlm.nih.gov/">https://pubmed.ncbi.nlm.nih.gov/</a>	Open access
	<b>Cyberleninka Open Science Hub:</b> open scientific electronic library publications on foreign languages. – URL: <a href="https://cyberleninka.org/">https://cyberleninka.org/</a>	Open access content
	<b>Scientific heritage of Russia:</b> eelectronic library /MSC RAS.- URL: <a href="http://www.e-heritage.ru/">http://www.e-heritage.ru/</a>	Open access
	<b>KOOB.ru:</b> electronic library books By medicalpsychology. - URL: <a href="http://www.koob.ru/medical_psychology/">http://www.koob.ru/medical_psychology/</a>	Open access
	<b>SAGE Openaccess:</b> Open Access Resources / Sage Publications. – URL: <a href="https://uk.sagepub.com/en-gb/eur/open-access-at-sage">https://uk.sagepub.com/en-gb/eur/open-access-at-sage</a>	Content open that access
	<b>EBSCO&amp;OpenAccess:</b> open access resources. – URL: <a href="https://www.ebsco.com/open-access">https://www.ebsco.com/open-access</a>	Content open that access
	<b>Lvrach.ru:</b> honey. scientific - practical portal [largest prof. resource for doctors and medical community, created on the basis of scientific and practical. magazine "Attending Physician"]. - URL: <a href="https://www.lvrach.ru/">https://www.lvrach.ru/</a>	Open access
	<b>Science Direct:</b> official website; chapter "Open Access" / Elsevier.- URL: <a href="https://www.elsevier.com/open-access/open-access-journals">https://www.elsevier.com/open-access/open-access-journals</a>	Content open access
	<b>Taylor &amp; Francis. Dove Medical Press. Open accessjournals:</b> magazines open access. – URL: <a href="https://www.tandfonline.com/openaccess/dove">https://www.tandfonline.com/openaccess/dove</a>	Content open access
	<b>Taylor &amp; Francis. Open access books:</b> open access books. –	Content

URL: <a href="https://www.routledge.com/our-products/open-access-books/taylor-francis-oa-books">https://www.routledge.com/our-products/open-access-books/taylor-francis-oa-books</a>	open access
<b>Thieme. Open access journals:</b> Open Access Journals / Thieme Medical Publishing Group. –URL: <a href="https://open.thieme.com/home">https://open.thieme.com/home</a>	Content open that access
<b>Karger Open Access:</b> open access journals / S. Karger AG. – URL: <a href="https://www.karger.com/OpenAccess/AllJournals/Index">https://www.karger.com/OpenAccess/AllJournals/Index</a>	Content open that access
<b>Archive scientific magazines</b> /NP NEICON. - URL: <a href="https://arch.neicon.ru/xmlui/">https://arch.neicon.ru/xmlui/</a>	Open access
<b>Directory of Open Access Journals:</b> [full text journals 121 countries peace, incl. in medicine, biology,chemistry].- URL: <a href="http://www.doaj.org/">http://www.doaj.org/</a>	Open access
<b>International Scientific Publications.</b> –URL: <a href="http://www.scientific-publications.net/ru/">http://www.scientific-publications.net/ru/</a>	Open access
<b>Eco-Vector:</b> portal of scientific journals / IT platform of the Russian Group of Companies "ECO-Vector". - URL: <a href="http://journals.eco-vector.com/">http://journals.eco-vector.com/</a>	Open access
<b>Medline.Ru:</b> scientific biomedical journal : online electronic publication. - URL: <a href="http://www.medline.ru">http://www.medline.ru</a>	Open access
<b>Medical Bulletin of the South of Russia:</b> electron. magazine/ RostGMU. - URL: <a href="http://www.medicalherald.ru/jour">http://www.medicalherald.ru/jour</a>	Open access
<b>Categories</b> clinical recommendations of the Russian Ministry of Health. - URL: <a href="https://cr.minzdrav.gov.ru/">https:// cr.minzdrav.gov.ru/</a>	Open access
FBUZ "Information and Methodological Center" of Rospotrebnadzor: official. website. –URL: <a href="https://www.crc.ru">https://www.crc.ru</a>	Open access
<b>Ministry of Health of the Russian Federation:</b> official website. - URL: <a href="https://minzdrav.gov.ru">https://minzdrav.gov.ru</a>	Open access
<b>Federal Service for Supervision</b> in the field of healthcare: official. website. - URL: <a href="https://roszdravnadzor.gov.ru/">https://roszdravnadzor.gov.ru/</a>	Open access
<b>World Health Organization:</b> official website.- URL: <a href="http://who.int/ru/">http://who.int/ru/</a>	Open access
<b>Ministry Sciences And higher education</b> Russian Federation: official website. - URL: <a href="http://minobrnauki.gov.ru/">http://minobrnauki.gov.ru/</a> (search engineYandex system)	Open access
<b>Modern problems of science and education:</b> electron. magazine. Online publication. - URL: <a href="http://www.science-education.ru/ru/issue/index">http://www.science-education.ru/ru/issue/index</a>	Open access
<b>Dictionaries And encyclopedias on Academician.</b> - URL: <a href="http://dic.academic.ru/">http://dic.academic.ru/</a>	Open access
<b>Official Internet portal of legal information.</b> - URL: <a href="http://pravo.gov.ru/">http://pravo.gov.ru/</a>	Open access
<b>Education in Russian:</b> educational portal / State. Institute of Russian language them. A.S. Pushkin. -URL: <a href="http://pushkininstitute.ru/">http://pushkininstitute.ru/</a>	Open access

### 6.3. Software security, informational help systems:

*Consultant Plus*[Electronic resource]: reference. legal system. - Access mode:<http://www.consultant.ru>

### 6.4. Methodical instructions For students By mastering the discipline:

1. Chaplygina E.V. Collection of educational and methodological materials for current and intermediate control in anatomy for students of the medical and preventive faculty / E.V. Chaplygina, O.A. Kaplunova, I.V. Sankova [and others]. – Rostov n/d: Publishing house Rost State Medical University, 2016. - 106 p.  
The same [Electronic resource]: electronic copy. – Access from EUB RostSMU.

## VI. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE

educational program in the specialty:

### MEDICAL CASE

No.	Disciplines (modules):	Address (location) of classrooms, name equipped classrooms, facilities for conducting practical and laboratory classes, physical education and sports facilities with a list of basic equipment	Equipment of the classroom (technical means, sets of demonstration equipment, laboratory equipment, etc.)	Number of computers to access the Internet
1	2	3	4	5
1	Anatomy	8th floor of the sub-faculty of Growth of State Medical University, educational and laboratory building No. 2, Rostov-on-Don, Kirovsky district, st. Suvorov No. 119/80 (LiterA) classroom No. 807(No. 6):	8 study tables, 1 table teacher, 25 chairs, blackboard, desk, hanger.	
2	Anatomy	8th floor ULK No. 2 Rost State Medical University, classroom No. 812 (No. 8):	12 study tables, 1 table teacher, 25 chairs, educational board, desk, hanger.	
3	Anatomy	8th floor ULK No. 2 Rost State Medical University, classroom No. 814(No. 10):	9 teaching tables, 1 teacher's table, 25 chairs, teaching board, desk hanger.	
4	Anatomy	8th floor ULK No. 2 Rost State Medical University, classroom No. 815(No. 11):	9 study tables, 1 table teacher, 25 chairs, blackboard, desk, hanger.	



5	Anatomy	8th floor ULK No. 2 Rost State Medical University, "laborantskaya" No. 801 "a": racks and cabinets for drugs, containers for wet drugs.	Bone preparations, wet preparations by section splanchnology and the central nervous system, tablets for the section myology and splanchnology, models in the arthrology section, splanchnology, angiology, peripheral nervous system. Laptop and multimedia projector (for presentations and training films). Tables. Sets of radiographs, CT-grams, SCT-grams, MRI-grams of body areas, organs and systems for splanchnology and cardiovascular systems.	
6	Anatomy	Rostov-on-Don, Kirovsky district, lane Nakhichevan No. 38/56-58/212-214 (Liter L) <b>Lecture hall</b> (No. 17) housing Department of Normal Anatomy No. 18.	Interactivemultimedia complex (for lecture presentations) - "Basis", wall and projection screen, magnetic marker board. For 150 seats.	
7	Anatomy	<b>Skull Museum</b> Department No. 17 "in" building of normal anatomy No. 18.	Collection of skulls of residents of the South of Russia: normal and with anomalies, skulls of newborns and adults (quantity about 300 pcs.)	

8	Anatomy	<b>Anatomical Museum</b> (No. 16) building of the Department of Normal Anatomy No. 18.	Collection of natural dry and wet preparations for all sections of anatomy; bone preparations normal and with abnormalities; Part drugs with defects development. Dissected muscular and vascular cadavers for studying topographic issues. Egyptian mummies (2). Collection of animal and bird skulls (comparative anatomy). Collection of corrosive and cleared preparations. A collection of radiographs, CT images, SCT images, MRI images of body areas, organs and systems in various sections of anatomy. Used in classes educational purposes.	
9	Anatomy	Classroom No. 1, building of the Department of Normal Anatomy No. 18.	7 study tables. 1 teacher's table, 17 chairs, teaching board, X-ray viewer. hanger	
10	Anatomy	Classroom No. 3, building of the Department of Normal Anatomy No. 18.	8 study tables, 1 table teacher, 17 chairs, educational board, X-ray viewer, hanger.	
eleven	Anatomy	Classroom No. 11 "a" of the building of the Department of Normal Anatomy No. 18.	20 study tables. 1 table teacher, 40 chairs, blackboard, TV for showing educational films, negatoscope, hanger.	
12	Anatomy	Classroom No. 11, building of the Department of Normal Anatomy No. 18.	10 study tables, 1 table teacher, 20 chairs, blackboard, TV for display of educational films, desk, X-ray viewer, hanger.	
13	Anatomy	Classroom No. 13, building of the Department of Normal Anatomy No. 18.	12 study tables, 1 table teacher, 27 chairs, blackboard, X-ray viewer, hanger.	

14	Anatomy	Classroom No. 9, building Department of Normal Anatomy No. 18.	9 teaching tables, 1 teacher's table, 20 chairs, teaching board, X-ray viewer, hanger.	
15	Anatomy	Room No. 18 "laboratory": Building of the Department of Normal Anatomy No. 18: racks and cabinets for drugs, containers for wet drugs.	Bone preparations, wet preparations by section splanchnology and the central nervous system, tablets for the section myology and splanchnology, models in the arthrology section, splanchnology, angiology, peripheral nervous system. Laptop and multimedia projector (for presentations and training films). Tables. Sets of radiographs, CT-grams, SCT- grams, MRI-grams of body areas, organs and systems for splanchnology and cardiovascular systems.	
16	Anatomy	Room No. 2 "laboratory" building of the Department of Normal Anatomy No. 18.	Containers for storing wet biological products. Wet biological products by section: splanchnology and central nervous system	
17	Anatomy	Room No. 17 "a" "laboratory" building of the Department of Normal Anatomy No. 18. at the anatomical museum for preventive drug servicing educational anatomical museum	3 desktops, laptop, printer, scanner. Tools, materials and solutions for the restoration of museum preparations.	

18	Anatomy	Room No. 17 "b" "laboratory" building of the Department of Normal Anatomy No. 18.  for preventive restoration of preparations used in educational process of the department.	2 work tables, drying cabinet. Tools and materials for restoration of educational preparations.	
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**CHECKLIST**by discipline: **anatomy**I approve  
Head of department \_\_\_\_\_ FULL  
NAME.

intermediate certification

form: ***test*** Department normal anatomy  
Well1 Semester 1 Specialty 31.05.01  
**General Medicine**

No.	Types of control	Number of points for 1 control event*	Number of events	credit score
	<b><i>Current control:</i></b>	3-5	17	from 3 to 5
	<i>solving situational problems</i>			
	<i>oral interview</i>			with 70% of the material passed and 75% of classes attended
	<i>test control</i>			
	<b><i>Frontier control:</i></b>	3-5	3	
	<i>testing</i>			
	Total			

**Accrual of bonus points:** speaking at conferences, club meetings, publication of scientific work, production of anatomical preparations, participation in the anatomical Olympiad (1-5)

## Appendix 2

### CHECKLIST

by discipline: **anatomy**

*I approve*  
Head of department \_\_\_\_\_ FULL  
NAME.

intermediate certification

form: *test* Department normal anatomy  
\_\_\_\_\_ Well1 \_\_\_\_\_ Semester 2  
\_\_\_\_\_ Specialty 05/31/01\_ General Medicine

No.	Types of control	Number of points for 1 control event*	Number of events	credit score
	<b><i>Current control:</i></b>	3-5	17	from 3 to 5
	<i>test control,</i>			
	<i>solving situational problems</i>			with 70% of the material passed and 75% of classes attended
	<i>oral interview</i>			
	<b><i>Frontier control:</i></b>	3-5	3	
	<i>Testing</i>			
	Total			

**Accrual of bonus points:** speaking at conferences, club meetings, publication of scientific work, production of anatomical preparations, participation in the anatomical Olympiad (1-5)

Appendix 2

**CHECKLIST**

by discipline: **anatomy**

I approve  
 Head of department \_\_\_\_\_ FULL  
 NAME.

intermediate certification

form: **exam** Department normal anatomy  
 \_\_\_\_\_ Well2 \_\_\_\_\_ Semester 3  
 \_\_\_\_\_ Specialty 05/31/01\_ General Medicine

No.	Types of control	Number of points for 1 control event*	Number of events	number of points
	<b>Current control:</b>	3-5	17	
	<i>test control,</i>			
	<i>solving situational problems</i>			
	<i>oral interview</i>			
	<b>Frontier control:</b>	3-5	3	
	<i>Testing</i>			

**Accrual of bonus points:** speaking at conferences, club meetings, publication of scientific work, production of anatomical preparations, participation in the anatomical Olympiad (1-5)