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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA
RUDN University**

Institute of Medicine

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

ANATOMY

course title

Recommended by the Didactic Council for the Education Field of:

31.05.01 General Medicine

field of studies / speciality code and title

**The course instruction is implemented within the professional education
programme of Higher education:**

General Medicine

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The aim of mastering the course "Anatomy" is to acquire knowledge about the structure of the human body on the basis of modern achievements of macro- and microscopic anatomy and knowledge about the structure of organs and organ systems, their topography and development, as well as the formation of general professional competence in the structural organization of the basic processes of vital activity of the body.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course "Anatomy" is aiming at developing the following competencies in students: GPC-5, GPC-11.

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-5	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	GPC-5.3. To be able to determine the morphofunctional, physiological states and pathological processes of the human body.
GPC-11	Able to prepare and apply scientific, scientific and production, design, organizational, managerial and regulatory documentation in the healthcare system	GPC-11.2 To be able to apply medical terminology, scientific, scientific and production, design, organizational, managerial and regulatory documentation in the framework of his professional activities.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective component of (B1) block of the higher educational programme curriculum.*

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
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GPC-5	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	Chemistry;	General Surgery; Obstetrics and Gynecology; Microbiology, virology; Oncology, radiation therapy; Pathophysiology, clinical pathophysiology; Molecular genetic methods; Methods of microbiological diagnostics; Propaedeutics of internal diseases; Immunology; Pathological anatomy, clinical pathological anatomy; Radiation diagnostics; Medical Elementology; Phthisiology; Anesthesiology, intensive care, intensive care; Ophthalmology; Methods of cell biology and histology; Pharmacology; Topographic anatomy and operative surgery; Forensic medicine; Maxillofacial surgery; Medical criminology; Otorhinolaryngology; Pediatrics; Sectional course.
GPC-11	Able to prepare and apply scientific, scientific and production, design, organizational, managerial and regulatory documentation in the healthcare system		Public health and healthcare, health economics; Fundamentals of scientific research; Evidence-based medicine; Hygiene; Medical forensics.

4. THE COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 2 credits (72 academic hours).

*Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)**

Type of academic activities		Total academic hours	Semesters/training modules		
			2	3	4
Classroom learning, ac.h		312	102	102	108
Lectures (LC)		52	17	17	18
Lab work (LW)		0	0	0	0
Seminars (workshops/tutorials) (S)		260	85	85	90
<i>Self-studies</i>		<i>60</i>	<i>21</i>	<i>21</i>	<i>18</i>
<i>Evaluation and assessment (exam/passing/failing grade)</i>		<i>60</i>	<i>21</i>	<i>21</i>	<i>18</i>
Course workload	academic hours	432	144	144	144
	credits	12	4	4	4

5. COURSE CONTENTS

Table 5.1. The content of the discipline and types of academic work

Course module title	Course module contents (topics)	Academic activities types
Chapter 1 Body anatomy	1.1. Bones and joints of trunk Structure of the vertebrae, sacrum and coccyx. Connections of the vertebrae. Skeleton of the chest. Connections of the chest.	LC, S
	1.2. Bones and joints of the limbs Bones and joints of the upper limb girdle. Bones and joints of the free upper limb. Bones and joints of the lower limb girdle. Bones and joints of the free lower limb.	LC, S
	1.3. Bones and joints of the head Bones of the brain skull. Bones of the face. Connections of the skull bones. Cavities and pits of the brain skull. Cavities and pits of the visceral skull.	LC, S
	1.4. Muscular system Muscles of the spinal column. Muscles of the chest. Muscles of the abdominal walls. The pelvic diaphragm. Muscles of the head. Muscles and fasciae of the neck. Muscles of the shoulder girdle. Muscles of the free upper limb. Fasciae and topography of the upper limb. Muscles of the pelvic girdle. Muscles of the free lower limb. Fasciae and topography of the lower limb.	LC, S

Chapter 2 Splanchnology	2.1. Digestive system Oral cavity. Pharynx. Esophagus, Stomach. Small intestine, Large intestine. Liver. Pancreas. Peritoneum and peritoneal cavity.	LC, S
	2.2. Respiratory system Nasal cavity. Larynx. Trachea. Bronchi. Lungs. Thoracic cavity. Pleural cavity.	LC, S

	<p>2.3. Urinary and Reproductive systems Anatomy of the urinary system. Anatomy of the male reproductive system. Anatomy of the female reproductive system. Perineum.</p>	LC, S
	<p>2.4. Endocrine glands Structure and topography of endocrine glands. Functions of endocrine glands.</p>	LC, S
<p>Chapter 3 Cardiovascular systems</p>	<p>3.1. Cardiovascular system The heart and its blood supply. The pericardium. The vessels of the small circle of circulation. The external carotid artery and its branches. The internal carotid artery and its branches. The subclavian artery. The branches of the thoracic and abdominal aorta. The axillary artery and its branches. The main arteries of the upper limb. The iliac arteries and their branches. The main arteries of the lower limb. The superior vena cava and its tributaries. The inferior vena cava and its tributaries. The portal vein of the liver, its tributaries, and branches.</p>	LC, S
	<p>3.2. Lymphatic drainage path Lymphoid organs. Lymphatic vessels and lymph nodes of the lower half of the body. Lymphatic vessels and lymph nodes of the upper half of the body and the respiratory organs.</p>	LC, S
<p>Chapter 4 Nervous system and sense organs</p>	<p>4.1. Central nervous system Spinal cord. Spinal and brain membranes. Medulla oblongata. Pontine. Fourth ventricle. Midbrain. Cerebellum. Intermediate brain. Cerebral hemispheres. Basal nuclei of the terminal brain. Paths of somatosensory sensitivity. Motor functional system. Blood supply of the brain and spinal cord.</p>	LC, S
	<p>4.2. Cranial nerves and their innervation areas Somatomotor cranial nerves. Trigeminal nerve. Facial nerve. Glossopharyngeal nerve. Vagus nerve.</p>	LC, S
	<p>4.3. Spinal nerves; somatic nerve plexuses Spinal nerves. Cervical plexus, its nerves and areas of innervation. Brachial plexus, its nerves and areas of innervation. Lumbar plexus, its nerves and areas of innervation. Sacral plexus, its nerves and areas of innervation.</p>	LC, S
	<p>4.4. The autonomous part of the peripheral nervous system. The sympathetic part of the ANS. The parasympathetic part of the ANS. Visceral plexuses and nodes. Organ innervation.</p>	LC, S
	<p>4.5. Anatomy of the sensory organs Structure of the eyeball. Visual functional system. Auxiliary apparatus of the eye. Organ of hearing. Vestibular organ. Organ of smell. Organ of taste.</p>	LC, S

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom Infrastructure and Technology Support Requirements

Classroom for Academic Activity Type	Classroom Equipment	Specialized educational/laboratory equipment, software and materials for the mastering of the discipline
Lecture	Audience for lecture-type classes equipped with a set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, stable wireless Internet connection.	
Seminar	Classroom for practical lessons, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and equipment (classrooms 128, 129, 104, 106, 107, 09, 010, 012)	
Computer lab	A computer class for conducting classes, group and individual consultations, current control and intermediate certification, equipped with personal computers (in the amount of 20), a board (screen) and technical means of multimedia presentations (aud. 130)	
Self-studies	An auditorium for self-studies of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS	Anatomic table «Anatomage» with virtual images of Human Body. Museum collection of anatomical specimen (total – 900).

7. RECOMMENDED SOURCES FOR COURSE STUDIES

Main readings:

1. Sapin M.R., Nikitjuk D.B., Nikolenko V.N., Klochkova S.V.; edited by M.R. Sapin, D.B. Nikityuk. - Moscow : GEOTAR-Media, 2026. - 429 p. : il.
2. Sapin M.R., Nikitjuk D.B., Nikolenko V.N., Klochkova S.V.; edited by M.R. Sapin, D.B. Nikityuk. - Moscow : GEOTAR-Media, 2026. - 502 p. : il.
3. Sapin M.R. Textbook of Human Anatomy: For Medical Students [Текст] : In 2 volumes. Volume 2 / M.R. Sapin, L.L. Kolesnikov, D.B. Nikitjuk; Edited by M.R.Sapin. - Книга на английском языке. - Moscow : New Wave Publishing Agency, 2018, 2021 - 479 p. : il. - ISBN 978-5-7864-0211-8 : 3608.46.
4. Sapin M.R. Textbook of Human Anatomy: For Medical Students [Текст] : In 2 volumes. Volume 1 / M.R. Sapin, L.L. Kolesnikov, D.B. Nikitjuk; Edited by M.R.Sapin. - Книга на английском языке. - Moscow : New Wave Publishing Agency, 2018, 2021 - 416 p. : il. - ISBN 978-5-7864-0210-1 : 3590.45.

Additional reading (sources)

1. Human anatomy: the textbook in 2 v./ M.Prives, N.Lysenkov, V.Bushkovich. – M.,Mir Publishers, 1989.

2. Hansen J.T. Netter's Clinical Anatomy / J.T. Hansen, F.H. Netter. - 4th Edition ; Книга на английском языке. - Philadelphia : Elsevier, 2019. - 588 p. : il. - ISBN 978-0-323-53188-7 : 7642.32.
3. Textbook of Human Anatomy [Электронный ресурс] : In 3 vol. Vol. 1 : Locomotor apparatus / L.L. Kolesnikov [и др.]. - М. : ГЭОТАР-Медиа, 2018. - 288 p. - ISBN 978-5-9704-4038-4.
4. Drake R.L. Gray's Anatomy for Students / R.L. Drake, W.A. Vogl, Mitchell Adam W.M. - Third Edition ; Книга на английском языке. - Philadelphia : Elsevier, 2015. - 1161 p. : il. - ISBN 978-0-7020-5131-9 : 8197.77.
5. Netter F.H. Atlas of human anatomy [Текст] / F.H. Netter. - 6th ed. ; Книга на английском языке; International edition. - Philadelphia : Saunders : Elsevier, 2014. - 591 p. : il. - ISBN 978-1-4587-0418-7 : 5115.00.
6. Kozlov V.I., Gurova O.A., Kokoreva T.V., Anatomy of the skeleton. Workbook. Educational allowance. - М. : Practical Medicine, 2019. 72 p.
7. Kozlov VI, Gurova OA, Kokoreva TV, Anatomy of joints. Workbook. Tutorial. - М.: Practical Medicine, 2019 . 56 p.
8. Kozlov VI, Gurova OA, Kokoreva TV. Muscular system. Students` workbook. - М.: Practical Medicine, 2025. 60p.
9. Kozlov V. I., Sakharov V. N. Anatomy of organs of digestive and respiratory systems. Student`s workbook: Training manual. - М.: Practical Medicine, 2023. 80p.
10. Kozlov V.I., Gurova O.A., Chechetkina Ya.V. Anatomy of urinary and reproductive organs. Student`s workbook training manual. - М.: Practical Medicine, 2021.
11. Kozlov V.I., Naumets L.V., Kuchuk A.V. Anatomy of the heart. Workbook. Educational allowance. - М.: Practical Medicine, 2018. 45p.
12. Kozlov V.I., Kokoreva T.V. Arteries and veins anatomy. Workbook. Educational allowance. - М.: Practical Medicine, 2020. 98p.
13. Kozlov V.I., Tsekhmistrenko T.A. Anatomy of Spinal cord and brain. Students` workbook. - М.: Practical Medicine, 2019. 120 p.
14. Kozlov VI, Tsekhmistrenko TA Anatomy of the peripheral nervous system. Working notebook. Tutorial. - М.: Practical Medicine, 2020. 112p.
15. Kozlov V.I., Kokoreva T.V. Bones and joints of the head. Student`s workbook: Training manual. - М.: Practical Medicine, 2025.

Internet-(based) sources

- Electronic libraries with access for RUDN students
 - Электронно-библиотечная система РУДН – ЭБС РУДН <https://mega.rudn.ru/MegaPro/Web>
 - ЭБС «Университетская библиотека онлайн» <http://www.biblioclub.ru>
 - ЭБС «Юрайт» <http://www.biblio-online.ru>
 - ЭБС «Консультант студента» www.studentlibrary.ru
 - ЭБС «Знаниум» <https://znanium.ru/>
- Databases and search engines
 - Sage <https://journals.sagepub.com/>
 - Springer Nature Link <https://link.springer.com/>
 - Wiley Journal Database <https://onlinelibrary.wiley.com/>
 - Научометрическая база данных Lens.org <https://www.lens.org>

Learning toolkits for self- studies in the RUDN LMS TUIS:

1. Lectures Synopsis on the discipline “Anatomy”
2. Methodological guidelines for the implementation and execution of control and independent work on the discipline "Anatomy"

* - All teaching materials for self-studying of students are placed in accordance with the current procedure on the discipline page in the RUDN LMS TUIS.

8. EVALUATION TOOLKIT AND GRADE SYSTEM FOR ASSESSMENT

Evaluation Toolkit (ET) and a point-rating system (PRS)* for assessment the level of competence formation (GPC-5, GPC-11) based on the results of mastering the discipline "Anatomy" are presented in the Appendix to this Work Program of the discipline.

* - ET and PRS are formed on the basis of the requirements of the relevant local regulatory act of the RUDN

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