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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**

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

## **COURSE SYLLABUS**

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**Human Anatomy**

course title

**Recommended by the Didactic Council for the Education Field of:**

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**31.05.03 Dentistry**

field of studies / speciality code and title

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

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**Dentistry**

higher education programme profile/specialisation title

**2026**

### 1. COURSE GOAL(s)

The goal of the course “**Human anatomy. Anatomy of head and neck**” is to acquire of knowledge about the structure of the human body, structure of organs and organ systems, their topography and development on the base of modern achievements of the macro- and microscopic anatomy as well as the development of general professional medical competence in matters of structural organization of basic the processes of the living organism.

### 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) “**Human anatomy**” is aimed at the development of the following competences /competences in part: GC-1, GPC-9, 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)
GC-1	Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	GC-1.1. Analysing the problem situation as a system identifying its components and links between them.
GPC-9	Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	GPC-9.3. Determining morphofunctional, physiological states and pathological processes of the human body.
GPC-13	Being able to understand the operation principles of modern IT and use them to solve the professional tasks	GPC-13.1. Using information technology in professional activity and observing the information security rules. Information and communication media and technology in professional activity.

### 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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GC-1	Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy	Biology	Topographic anatomy and operative head and neck surgery
GPC-9	Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	Compulsory school (Disciplines) Module of natural science cycle	Topographic anatomy and operative head and neck surgery Propaedeutics of dentistry discipline
GPC-13	Being able to understand the operation principles of modern IT and use them to solve the professional tasks	Compulsory school (Disciplines) Module of natural science cycle	Topographic anatomy and operative head and neck surgery Propaedeutics of dentistry discipline Oral surgery Gnathology and functional examination of temporomandibular joint Maxillofacial and gnathological Surgery Preventive dentistry Therapeutic dentistry Obstetrics

\* To be filled in according to the competence matrix of the higher education programme.

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course “**Human anatomy. Anatomy of head and neck**” is 9 credits (324 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		
<i>Contact academic hours</i>	210	108	102		
including:					
Lectures (LC)	53	36	17		
Lab work (LW)	157	72	85		
Seminars (workshops/tutorials) (S)					
<i>Self-studies</i>	78	54	24		
<i>Evaluation and assessment (exam/passing/failing grade)</i>	36	18	18		
<b>Course workload</b>	academic hours	<b>324</b>	<b>180</b>	<b>144</b>	
	credits	<b>9</b>	<b>5</b>	<b>4</b>	

\* To be filled in regarding the higher education programme correspondence training mode.

## 5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
<b>Module 1.</b> Anatomy of body and organs	1. 1. Anatomy of body Introduction to human anatomy. Basic anatomical concepts. The skeletal system. The structure of the vertebrae, sacrum, and coccyx. The skeletal structure of the chest. The system of joints. The joints of the spinal column. The joints of the chest. The joints of the upper and lower extremities. The muscular system. The muscles of the spinal column. The muscles of the chest. The muscles of the abdomen. The muscles of the trunk that act on the upper limb. The anatomy of the upper limb. Skeleton and joints of the upper limb bones. Muscles of the shoulder girdle. Muscles of the shoulder, forearm, and hand. Anatomy of the lower limb. Skeleton and joints of the lower limb bones. Muscles of the pelvic girdle and thigh. Muscles of the lower leg and foot.	<b>LC, LW</b>
	1.2. Splanchnology Digestive system. Initial parts of the digestive canal. Stomach. Small intestine. Large intestine. Liver. Pancreas. Abdominal cavity. Peritoneum, peritoneal cavity. Respiratory system. Upper respiratory tract. Larynx. Trachea. Bronchi. Lungs. Thoracic cavity. Pleural cavity. Urinary system. Urinary system organs: kidneys, ureters, bladder. Female urethra. Reproductive systems. Female reproductive system organs: ovaries, uterus, fallopian tubes, vagina. External female reproductive organs. Mammary gland. Male reproductive system organs: testes, vas deferens, prostate, bulbourethral glands. Male urethra. External male reproductive organs. Endocrine glands: topography, structure, functions.	<b>LC, LW</b>
	1.3. Cardiovascular and Lymphoid system Cardiovascular system. Heart. Vessels of the small circle of circulation. Arch of the aorta and its branches. Thoracic part of the aorta; blood supply to the walls and organs of the thoracic cavity. Abdominal part of the aorta; blood supply to the organs of the abdominal cavity. Arteries of the upper limb. Arteries of the lower limb. Venous outflow pathways: superior and inferior vena cava, and portal vein of the liver. Lymphoid system. Organs of the lymphoid system. Lymph nodes and lymphatic drainage pathways.	<b>LC, LW</b>
	1.4. Nervous system Nervous system and sensory organs. Central nervous system. Spinal and brain membranes. Spinal cord. Brain stem, cerebellum. Intermediate brain. Large brain. Motor system. Limbic system. Sensory systems. Somatosensory system. Eye. Ear and vestibular organ. Taste organ. Peripheral nervous system. Spinal nerves. Brachial plexus. Lumbosacral plexus. Autonomic nervous system. Visceral plexuses and ganglia.	<b>LC, LW</b>
<b>Module 2.</b> Anatomy of the head and maxillofacial region	2. 1. Structure of skull, muscles and fasciae of head and neck Bones, joints, muscles of the head and neck. Bones of the cerebral skull. Bones of the visceral skull. Skull joints. The arch and base of the skull are the cavities and pits of the skull. Muscles and fascia	

	of the head and neck. Blood supply to the head. Arteries of the head and neck. Veins and lymphatic drainage pathways from the organs of the head and neck.	
	2.2. The structure of the dental apparatus Anatomy of teeth. Dental rows. Periodontium; parodontium. Deciduous teeth Private anatomy of teeth: incisors, canines. Private anatomy of teeth: premolars, molars.	
	2.3. Maxillofacial region and oropharynx Mouth and oral cavity; pharynx. Oral cavity. Salivary glands. Tongue. Throat. Pharynx. Blood supply to the organs of the maxillofacial region. Blood supply to the oral region and the oral mucosa. Blood supply to the teeth, salivary glands, tongue, throat, and pharynx.	
	2.4. Cranial nerves and innervation of the maxillofacial organs Cranial nerves. Somatomotor nerves (III, IV, VI, XI, XII pairs). Trigeminal nerve, facial nerve, glossopharyngeal nerve, vagus nerve: branches, fiber composition, and areas of innervation. Innervation of the organs of the maxillofacial region. Autonomic (vegetative) innervation of the organs of the head and neck.	

\* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

## 6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

*Table 6.1. Classroom Equipment and Technology Support Requirements*

<b>Classroom for Academic Activity Type</b>	<b>Classroom Equipment</b>	<b>Specialized educational / laboratory equipment, software and materials for mastering the discipline (if it is necessary)</b>
Lecture	Lecture classroom equipped with a set of specialized furniture; whiteboard (screen) and technical devices for multimedia projector	
Lab-work	Classroom for practical lessons, individual consultations, current control and Mid-Term Assessment attestation equipped with a set of specialized furniture and devices	

Computer lab	Computer classroom for group and individual consultations, current control and Mid-Term assessment equipped with personal computers (20 in number), whiteboard (screen) and projection screen for presentations	
Self-studies	Classroom for self-studies of students (may be used for seminars and consultations), equipped with set of specialized furniture and computers with EIEM access.	Anatomic table «Anatmage» with virtual images of Human Body. Museum collection of anatomical specimen (total – 900).

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### a. *Main readings:*

- i. 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.
- ii. 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.
- iii. Sapin M.R., Kolesnikov L.L., Nikitjuk D.B. Textbook of Human Anatomy: For Medical Students. in 2 volumes. - Moscow : New Wave Publishing Agency, 2021. URL: [https://mega.rudn.ru/MegaPro/UserEntry?Action=Link\\_FindDoc&id=473237&idb=0](https://mega.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=473237&idb=0)
- iv. Nikolenko V.N., Oganesyanyan M.V. Multilingual Atlas of Human Anatomy: educational and visual aid. Volume 1. The book is in Russian, Latin, English and Chinese. - Moscow: Medical Information Agency, 2021. - 155 c.

### b. *Additional readings:*

- i. Kozlov V.I., Gurova O.A., Kokoreva T.V., Anatomy of the skeleton. Workbook. Educational allowance. - M.: Practical Medicine, 2019. 72 p.
- ii. Kozlov V.I., Gurova O.A., Kokoreva T.V., Anatomy of compounds. Workbook. Tutorial. - M.: Practical Medicine, 2019. 56 p.
- iii. Kozlov V.I. Muscular system. Students' workbook. - M.: Practical Medicine, 2025. 60p.
- iv. Kozlov V. I., Sakharov V. N. Anatomy of organs of digestive and respiratory systems. Student's workbook: Training manual. - M.: Practical Medicine, 2023. 80p.
- v. Kozlov V.I., Gurova O.A., Chechetkina Ya.V. Anatomy of urinary and reproductive organs. Student's workbook training manual. - M.: Practical Medicine, 2021.
- vi. Kozlov V.I., Naumets L.V., Kuchuk A.V. Anatomy of the heart. Workbook. Educational allowance. - M.: Practical Medicine, 2018. 45p.
- vii. Kozlov V.I., Kokoreva T.V. Arteries and veins anatomy. Workbook. Educational allowance. - M.: Practical Medicine, 2020. 98p.

- viii. Kozlov V.I., Tsekhmistrenko T.A. Anatomy of Spinal cord and brain. Students' workbook. - M.: Practical Medicine, 2019. 120 p.
- ix. Kozlov VI, Tsekhmistrenko TA Anatomy of the peripheral nervous system. Working notebook. Tutorial. - M.: Practical Medicine, 2020. 112p.
- x. Kozlov V.I., Kokoreva T.V. Bones and joints of the head. Student's workbook: Training manual. - M.: Practical Medicine, 2025.
- xi. Kozlov V.I., Gurova O.A., Kokoreva T.V. Skull anatomy. Workbook. Educational allowance. - M.: Practical Medicine, 2018. 44 p.
- xii. Kozlov V.I., Tsehmistrenko T.A., Tsvetkova T.Yu. Anatomy of oral cavity: Students' workbook, training manual. - M.: Practical Medicine, 2019. 80p.
- xiii. Kozlov V.I., Tsekhmistrenko T.A., Tsvetkova T.Yu. Anatomy of the teeth. Workbook. Tutorial. - Moscow: Practical Medicine, 2019. 80 p.
- xiv. Atlas of Human Anatomy: a textbook for medical students in 3 volumes / R.D. Sinelnikov, Ya.R. Sinelnikov. – Mir Publisher Moscow. – 1989.
- xv. Netter Frank H. Atlas of Human Anatomy / F. H. Netter. - 4th ed.- Philadelphia : Elsevier, 2006. - 600 p.: il.

*Resources of the Internet information and telecommunication network:*

1. Atlas «Virtual anatomy 3D» [Electronic source]: V.I. Kozlov, D.I. Landau, S.V. Rubtsov. Artekxa, 2020.
2. Book collections of publishing house SPRINGER. Access mode: [www.springerlink.com](http://www.springerlink.com)
3. Anatomic portal. Access mode: <http://anatomyportal.info/map.html>
4. Anatomic portal for doctors and students. – Access mode: <http://anatomy-portal.info/>
5. Anatomy. Human anatomy atlas. Access mode: <http://www.anatomy.tj/>
6. Terminologia Anatomica, 1998. Access mode: on-line version <http://www.unifr.ch/ifaa/Public/EntryPage/HomePublic.html>

*Software:*

- interactive teaching and research technology "Anatomical table" with software «Anatomage»;
- interactive teaching and research technology "Anatomical table" with software «Artekxa»
- virtual simulator (VR Technology) "Anatomy of teeth".

*Periodicals*

1. Scientific journal "Morphology"
2. Scientific journal "Morphological Bulletin"

*Internet-(based) sources «Internet»:*

1. Electronic libraries of RUDN and outsourced with access for RUDN students on the basis of concluded agreement:
  - Electronic libraries of RUDN – ЭБС РУДН <http://lib.rudn.ru/MegaPro/Web>
  - EL «Университетская библиотека онлайн» <http://www.biblioclub.ru>
  - EL Юрайт <http://www.biblio-online.ru>
  - EL «Консультант студента» [www.studentlibrary.ru](http://www.studentlibrary.ru)
  - EL «Лань» <http://e.lanbook.com/>

- EL «Троицкий мост»

## 2. Databases and search engines:

- electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine <https://www.yandex.ru/>
- Google search engine <https://www.google.ru/>
- abstract database SCOPUS  
<http://www.elsevierscience.ru/products/scopus/>

*Educational and methodological materials for independent work of students in the development of the discipline / module \*:*

1. A course of lectures on the discipline «Human Anatomy».
2. Guidelines for the implementation and design of control and independent work on the discipline «Human Anatomy».

\* - all educational and methodological materials for independent work of students are placed in accordance with the current procedure on the discipline page in **TUIS**.

## **8 . EVALUATION MEANS AND SCORE-RATING SYSTEM FOR ASSESSING THE LEVEL OF FORMATION OF COMPETENCES IN THE DISCIPLINE**

Evaluation means and a score-rating system\* for assessing the level of competencies (p GC-1, GPC-9, GPC-11) based on the results of mastering the discipline "Human Anatomy" are presented in the Appendix to this Course Syllabus of the discipline.

\* - EM and SRS are formed on the basis of the requirements of the relevant local normative act of RUDN University.

### **DEVELOPERS:**

Head of Human Anatomy  
Department, Full Professor

V.I. Kozlov

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position, department

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signature

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name and surname

Full Professor of Human  
Anatomy Department

T. A. Tsekhmistrenko

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position, department

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signature

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name and surname

**HEAD OF EDUCATIONAL DEPARTMENT:**  
Department of Human Anatomy

V.I. Kozlov

---

name of department

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signature

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name and surname

**HEAD  
OF HIGHER EDUCATION PROGRAMME:**  
Deputy Director of MI for  
Academic Affairs

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position, department

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signature

S.N. Razumova

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name and surname