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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, Anatomy of Head and Neck**

course title

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

**31.05.03 Dentistry**

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field of studies / speciality code and title

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

**Dentistry**

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higher education programme profile/specialisation title

## 1. COURSE GOAL(s)

The goal of the course “Human Anatomy, anatomy of Head and Neck” is to equip students with the 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, anatomy of Head and Neck” is aimed at the development of the following competences /competences in part: GC-1.1; GPC-9.3; GPC-13.1.

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

| <b>Competence code</b> | <b>Competence descriptor</b>   | <b>Competence formation indicators<br/>(within this course)</b>  |
|------------------------|--|--|
| GC-1                   | Able to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy.   | GC-1.1. Analyzes the problem situation as a system, identifying its components and relationships between them.   |
| GPC-9                  | Able to assess morphofunctional, physiological conditions and pathological processes in the human body for solving professional problems   | GPC-9.3. Determines the morphofunctional, physiological states and pathological processes of the human body.   |
| GPC-13                 | Able to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies, taking into account the basic requirements of information security | GPC-13.1. Uses information technology in professional activities and follows the rules of information security, information and communication means and technologies 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*

| <b>Competence code</b> | <b>Competence descriptor</b>   | <b>Previous courses/modules*</b>                                   | <b>Subsequent courses/modules*</b>   |
|------------------------|--|--|--|
| GC-1                   | Able to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy.   | Biology  | Topographic anatomy and operative head and neck surgery  |
| GPC-9                  | Able to assess morphofunctional, physiological conditions and pathological processes in the human body for solving professional problems   | Compulsory school (Disciplines)<br>Module of natural science cycle | Topographic anatomy and operative head and neck surgery<br>Propaedeutics   |
| GPC-13                 | Able to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies, taking into account the basic requirements of information security | Compulsory school (Disciplines)<br>Module of natural science cycle | Topographic anatomy and operative head and neck surgery<br>Propaedeutics<br>Oral surgery<br>Maxillofacial Surgery<br>Preventive dentistry<br>Dentistry<br>propaedeutic<br>Therapeutic dentistry<br>Dentistry surgical<br>Orthopedic dentistry<br>General dentistry<br>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**)\**

| <b>Type of academic activities</b> | <b>Total</b> | <b>Semesters/training modules</b> |
|------------------------------------|--------------|-----------------------------------|
|------------------------------------|--------------|-----------------------------------|

|   |                | <b>academic hours</b> | <b>1</b>               | <b>2</b>               |
|---|----------------|-----------------------|------------------------|------------------------|
| <i>Contact academic hours</i>                                 |                | 216                   | 108<br>(2+4 ac.h/week) | 108<br>(2+4 ac.h/week) |
| <i>including:</i>   |                |                       |                        |                        |
| Lectures (LC)   |                | 72                    | 36                     | 36                     |
| Lab work (LW)   |                | 144                   | 72                     | 72                     |
| Seminars (workshops/tutorials) (S)                            |                |                       |                        |                        |
| <i>Self-studies</i>   |                | 108                   | 54                     | 54                     |
| <i>Evaluation and assessment (exam/passing/failing grade)</i> |                |                       |                        |                        |
| <b>Course workload</b>  | academic hours | <b>324</b>            | <b>162</b>             | <b>162</b>             |
|   | credits        | <b>9</b>              | <b>4,5</b>             | <b>4,5</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*

| <b>Course module title</b>              | <b>Course module contents (topics)</b>                     | <b>Academic activities types</b> |
|---|--|----------------------------------|
| Module 1.<br>Anatomy of body and organs | 1. 1. Anatomy of body                                      | LC, LW                           |
|   | 1. 2. Splanchnology  | LC, LW                           |
|   | 1. 3. Cardiovascular and Lymphoid system                   | LC, LW                           |
|   | 1. 4. Nervous system                                       | LC, LW                           |
| Module 2.<br>Head and neck anatomy      | 2. 1. Skeleton, articulations and muscles of head and neck | LC, LW                           |
|   | 2. 2. Anatomy of the oral cavity and teeth                 | LC, LW                           |
|   | 2. 3. Brain and cranial nerves                             | LC, LW                           |
|   | 2. 4. Innervation of the organs of head and neck           | LC, LW                           |

\* - 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>Type of academic activities</b> | <b>Classroom equipment</b>  | <b>Specialised educational / laboratory equipment, software, and materials for course study (if necessary)</b>   |
|------------------------------------|---|--|
| Lecture                            | Lecture classroom equipped with a set of specialized furniture; whiteboard (screen) and technical devices for multimedia projector                              | <p>Classroom lectures, lab works, group and individual consultation, current control and Mid-Term Assessment.</p> <p>Set of specialized furniture; a set of devices: portable multimedia projector TOSHIBA X200, laptop ASUS F9E Core 2 DUO T5750, stable wireless Internet connection.</p> <p>Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype</p>  |
| Lab work                           | Classroom for lab works, individual consultations, current control and Mid-Term Assessment attestation equipped with a set of specialized furniture and devices | <p>Skeleton, skull, bone sets, anatomical preparations of synovial joints and other articulations: skull, vertebral column, thoracic cage, pelvis, upper and lower limbs and also their anatomical models and tables. Set of bone radiographs.</p> <p>Cadaver with the dissected muscles, anatomical specimen and moulages of the trunk muscles, head and neck muscles, the diaphragm, pelvic diaphragm; anatomical tables.</p> <p>Cadaver with the dissected body cavities.</p> <p>Digestive system anatomical specimen, moulages and tables.</p> <p>Respiratory system anatomical specimen, moulages and tables.</p> <p>Urinary tract anatomical specimen, moulages and tables.</p> <p>Male and female reproductive system anatomical specimen, moulages and tables.</p> <p>Endocrine glands anatomical specimen, moulages and tables.</p> <p>Cadaver with the dissected blood vessels and nerves.</p> <p>Anatomical specimen, moulages and tables of heart, arteries and veins of head and neck, trunk, upper and lower limbs, separate organs.</p> <p>Anatomical specimen, (models) moulages and tables of the brain and spinal cord, peripheral nerves of the head and neck, the trunk, upper and lower limb, separate organs.</p> <p>Anatomical specimen, (models) moulages and tables of the sense organs: vision, hearing, taste and smell.</p> <p>Anatomy table «Anatomage» for the virtual</p> |

|              |   |  |
|--------------|---|--|
|              |   | work with the human body.<br>Museum collection of anatomical specimen (total – 900).   |
| Computer lab | Computer classroom for group and individual consultations, current control and Mid-Term assessment equipped with personal computers (15 in number), whiteboard (screen) and projection screen for presentations | Set of specialized furniture; a set of devices: portable multimedia projector TOSHIBA X200, laptop ASUS F9E Core 2 DUO T5750, stable wireless Internet connection.<br>Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype |
| 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.<br>Museum collection of anatomical specimen (total – 900).  |

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *Main readings:*

Human Anatomy: textbook / M.G.Prives, N.K. Lysenkov, V.I. Bushkovich.- Nav Prabhat Printing Press, Delhi. – 2 volumes, 602 and 439 p. - 1985.

Human anatomy: the textbook in 2 v./M.R.Sapin, L.L.Kolesnikov, D.B.Nikitjuk. – M., New Wave Publisher Ltd, 416 and 480 pages. - 2005.

Atlas of Human Anatomy: a textbook for medical students in 3 volumes / R.D. Sinelnikov, Ya.R.Sinelnikov. – Mir Publisher Moscow. - 1989.

Anatomy of bones: Students' workbook, training manual / V.I. Kozlov, O.A. Gurova, T.V. Kokoreva. - M.: Practical Medicine, 2014.

Anatomy of joints: Students' workbook, training manual / V.I. Kozlov, O.A. Gurova, T.V. Kokoreva. - M.: Practical Medicine, 2014.

Anatomy of muscles: Students' workbook, training manual / V.I. Kozlov, O.A. Gurova, T.V. Kokoreva. - M.: Practical Medicine, 2014.

Anatomy of skull: Students' workbook, training manual / V.I. Kozlov, O.A. Gurova, T.V. Kokoreva. - M.: Practical Medicine, 2014.

Anatomy of oral cavity: Students' workbook, training manual / V.I. Kozlov, T.A. Tsehmistrenko, T.Yu. Tsvetkova. - M.: People's Friendship University, 2018.

Kozlov V.I., Gurova O.A., Kokoreva T.V., Anatomy of the skeleton. Workbook. Educational

allowance. - M.: Practical Medicine, 2019.-- 72 p.

Kozlov V.I., Gurova O.A., Kokoreva T.V. Skull anatomy. Workbook. Educational allowance. - M.: Practical Medicine, 2018.-- 44 p.

Kozlov VI, Gurova OA, Kokoreva TV, Anatomy of compounds. Workbook. Tutorial. - M.: Practical Medicine, 2019.-- 56 p. 4. Kozlov V.I., Gurova O.A., Kokoreva T.V.

Muscle anatomy. Workbook. Educational allowance. - M.: Practical Medicine, 2018.-- 62 p.

Kozlov V.I., Sakharov V.N. Anatomy of the digestive and respiratory systems. Working notebook. Tutorial. - M.: Practical Medicine, 2019.-- p.

Kozlov V.I., Gurova O.A. Anatomy of the kidneys and urinary organs. Workbook. Tutorial. - M.: Practical Medicine, 2018.-- 70 p.

Kozlov V.I., Naumets L.V., Kuchuk A.V. Anatomy of the heart. Workbook. Educational allowance. - M.: Practical Medicine, 2018.-- 45 p.

Kozlov V.I., Kokoreva T.V. Arteries and veins anatomy. Workbook. Educational allowance. - M.: Practical Medicine, 2020.--98 p.

Kozlov VI, Tsekhmistrenko TA Anatomy of the spinal cord and brain. Working notebook. Tutorial. - M.: Practical Medicine, 2018.-- 126 p.

Kozlov VI, Tsekhmistrenko TA Anatomy of the peripheral nervous system. Working notebook. Tutorial. - M.: Practical Medicine, 2020. - 112p.

Kozlov V.I., Tsekhmistrenko T.A., Tsvetkova T.Yu. Oral cavity anatomy. Working notebook. Tutorial. - M.: Practical Medicine, 2018.-- 70 p.

Kozlov V.I., Tsekhmistrenko T.A., Tsvetkova T.Yu. Anatomy of the teeth. Workbook. Tutorial. - Moscow: Practical Medicine, 2019.-- 80 p.

### **Periodicals**

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

### ***Electronic full-text materials***

1. Human Anatomy: textbook / M.G.Prives, N.K. Lysenkov, V.I. Bushkovich.- Nav Prabhat Printing Press, Delhi. – 2 volumes, 602 and 439 p. - 1985.
2. Human anatomy: the textbook in 2 v./M.R.Sapin, L.L.Kolesnikov, D.B.Nikitjuk. – M., New Wave Publisher Ltd, 416 and 480 pages. - 2005.
3. Atlas of Human Anatomy: a textbook for medical students in 3 volumes / R.D. Sinelnikov, Ya.R.Sinelnikov. – Mir Publisher Moscow. - 1989.
4. Atlas «Virtual anatomy 3D» [Electronic source]: V.I. Kozlov, D.I. Landau, S.V. Rubtsov. Aptekca, 2016.
5. Book collections of publishing house SPRINGER. Access mode: [www.springerlink.com](http://www.springerlink.com)
6. Anatomic portal. Access mode: <http://anatomyportal.info/map.html>
7. Anatomic portal for doctors and students. – Access mode: <http://anatomy-portal.info/>
8. Anatomy. Human anatomy atlas. Access mode: <http://www.anatomy.tj/>
9. Terminologia Anatomica, 1998. Access mode: on-line version <http://www.unifr.ch/ifaa/Public/EntryPage/HomePublic.html>

*Additional readings:*

### ***Electronic full-text materials***

1. Practical skills of students for midterm certification in human anatomy [Electronic resource]: Specialty "Dentistry" / Comp .: V.I. Kozlov, T.A. Tsekhmistrenko, N.I. Volosok. - M .: Publishing house of RUDN, 2015 .-- 39 p.
2. Library homepage RUDN - Mode of access: <http://lib.rudn.ru/> - from desktops RUDN
3. University Library ONLINE - Mode of access: <http://www.biblioclub.ru/>
4. Atlas «Virtual anatomy 3D» [Electronic resource]: V.I. Rozlov, D.I. Landay, S.V. Rubtsov.  
Artekxa, 2016.

### ***Printed publications***

1. Clinically Oriented Anatomy 7<sup>th</sup> edition / Keith L. Moore, Arthur F. Dalley, Anne M.R. Agur. – Wolters Kluwer/Lippincott Williams & Wilkins, 2014. – 1170 p.
2. Wheeler’s Dental Anatomy, Physiology and Occlusion 9<sup>th</sup> edition / Stanley J. Nelson. – printed in China, 2010. – 401 p.
3. Terminologia Anatomica (International Anatomical Nomenclature) / edited by L.L. Kolesnikov.  
– M. Medicina, 2003. – 424 p.

### **Software:**

- interactive teaching and research technology "Anatomical table" with software «Anatmage»;
- interactive teaching and research technology "Anatomical table" with software «Artekxa».

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

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System (RUDN ELS) <http://lib.rudn.ru/MegaPro/Web>
- EL "University Library Online" <http://www.biblioclub.ru>
- EL "Yurayt" <http://www.biblio-online.ru>
- EL "Student Consultant" [www.studentlibrary.ru](http://www.studentlibrary.ru)
- EL "Lan" <http://e.lanbook.com/>
- EL "Trinity Bridge"

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/>

### *Training toolkit for self- studies to master the course* \*:

1. The set of lectures on the course “Human anatomy, anatomy of head and neck”

\* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.



## 8. ASSESSMENT TOOLKIT AND GRADING SYSTEM\* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system\* to evaluate the competences formation level (GC-1.1; GPC-9.3; GPC-13.1.) upon the course study completion are specified in the Appendix to the course syllabus.

\* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

### 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

V.I. Kozlov

---

position, department

---

signature

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name and surname

Associate professor of Human

Anatomy Department

T.Yu. Tsvetkova

---

position, department

---

signature

---

name and surname

### HEAD OF EDUCATIONAL DEPARTMENT:

Department of Human

Anatomy

V.I. Kozlov

---

name of department

---

signature

---

name and surname

### HEAD

### OF HIGHER EDUCATION PROGRAMME:

Deputy Director of MI for

Academic Affairs

S.N. Razumova

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position, department

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signature

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name and surname