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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
RUDN University
Institute of Medicine**

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

COURSE SYLLABUS

Human Anatomy, Anatomy of head and neck

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

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

Dentistry

higher education programme profile/specialisation title

2023-2023

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
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

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
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) Module of natural science cycle	Topographic anatomy and operative head and neck surgery 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) Module of natural science cycle	Topographic anatomy and operative head and neck surgery Propaedeutics Oral surgery Maxillofacial Surgery Preventive dentistry Dentistry propaedeutic Therapeutic dentistry Dentistry surgical Orthopedic dentistry General 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	
			1	2
<i>Contact academic hours</i>		216	108 (2+4 ac.h/week)	108 (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>				
Course workload	academic hours	324	162	162
	credits	9	4,5	4,5

* 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
Module 1. 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. 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

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	Lecture classroom equipped with a set of specialized furniture; whiteboard (screen) and technical devices for multimedia projector	Classroom lectures, lab works, group and individual consultation, current control and Mid-Term Assessment. Set of specialized furniture; a set of devices: portable multimedia projector TOSHIBA X200, laptop ASUS F9E Core 2 DUO T5750, stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype
Lab work	Classroom for lab works, individual consultations, current control and Mid-Term Assessment attestation equipped with a set of specialized furniture and devices	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. Cadaver with the dissected muscles, anatomical specimen and moulages of the trunk muscles, head and neck muscles, the diaphragm, pelvic diaphragm; anatomical tables. Cadaver with the dissected body cavities. Digestive system anatomical specimen, moulages and tables. Respiratory system anatomical specimen, moulages and tables. Urinary tract anatomical specimen, moulages and tables. Male and female reproductive system anatomical specimen, moulages and tables. Endocrine glands anatomical specimen, moulages and tables. Cadaver with the dissected blood vessels and nerves. Anatomical specimen, moulages and tables of heart, arteries and veins of head and neck, trunk, upper and lower limbs, separate organs. 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. Anatomical specimen, (models) moulages and tables of the sense organs: vision, hearing, taste and smell.

		Anatomy table «Anatontage» for the virtual work with the human body. 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. 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 «Anatontage» with virtual images of Human Body. 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. Tshmistrenko, 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
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 7th 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 9th 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
 - 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:

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Department, Full Professor

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position, department

signature

name and surname

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