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

Medical institute

COURSE SYLLABUS

Human Anatomy - Anatomy of Head and Neck

Recommended by the Didactic Council for the Higher Education Field

31.05.03 Dentistry

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

31.05.03 Dentistry

2024

1. GOALS OF MASTERING THE DISCIPLINE

Goals of mastering the discipline "Human anatomy. Anatomy of head and neck": acquisition 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 TO LEARNING OUTCOMES

Studying process of **"Human anatomy"** is directed to form the following competences:

Table 2.1 List of competencies formed by students in the course of mastering the discipline (Requirements to Learning Outcomes)

Competence code	Competence	Competence indicators
UC-1	Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	UC-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. PLACE OF DISCIPLINE IN THE STRUCTURE OF AN EDUCATIONAL PROGRAM

Discipline **"Human anatomy"** is Compulsory (Disciplines) Module of 1 EP HE.

In the framework of EP HE, students also master other disciplines and /or practices that contribute to the achievement of the planned results of mastering the discipline **"Human Anatomy"**.

Table 3.1 List of Higher Education Program components / disciplines that contribute to expected learning/training outcomes

Competence code	Competence	Previous Disciplines (Modules)	Subsequent Disciplines (Modules)
UC-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

* - is filled in accordance with the matrix of competencies and SEP of EP HE

4. DISCIPLINE VOLUME AND TYPES OF TRAINING ACTIVITY

Course workload of discipline **"Human anatomy. Anatomy of head and neck"** is 9 credit units.

Table 4.1. Types of academic activities during the period of the HE program mastering

Types of academic activities	Total Academic hours	Semesters	
		II	III
Contact academic hours	210	108	102
Including:	-	-	-
Lectures (L)	53	36	17
Lab work (LW)	157	72	85
Seminars (workshops/tutorials) (S)	0	0	0
Evaluation and assessment (exam or pass/fail grading)	36	18	18
Self-study (total)	78	54	24
Total Course workload academic hours	**324**	**180**	**144**
credit units	**9**	**5**	**4**

5. COURSE MODULES AND CONTENTS

Table 5.1. Discipline section's contents

№	**Subject / Course title section**	**Subject / Course title content**	**Type of academic activity**
1	**Section 1.** Anatomy of body and organs	1. 1. Anatomy of body 1. 2. Splanchnology 1. 3. Cardiovascular and Lymphoid system 1. 4. Nervous system	**L, LW** **L, LW** **L, LW** **L, LW**
2	**Section 2.** Head and neck anatomy	2. 1. Structure of skull, muscles and fasciae of head and neck 2. 2. Anatomy of the oral cavity and teeth 2. 3. Brain and sense organs 2. 4. Cranial nerves and their areas of innervation	**L, LW** **L, LW** **L, LW** **L, LW** **L, LW**

* - is filled only in the period of the HE program(me) mastering: *L – lectures; LW – laboratory work; S – seminars.*

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom Equipment and Technology Support Requirements

Classroom for Academic Activity Type	Classroom Equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if it is necessary)
Lecture classroom	Lecture classroom equipped with a set of specialized furniture; whiteboard (screen) and technical devices for	
	multimedia projector	
Lab classroom	Classroom for lab works, individual consultations, current control and MidTerm Assessment attestation equipped with a set of specialized furniture and devices	
Computer classroom	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	
Self-studies classroom	Classroom for self-studies of students (may be used for seminars and consultations), equipped with set of specialized furniture and computers with EIEM access.	

7. EDUCATIONAL AND METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

a) Main reading (sources):

Printed publications:

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.

Anatomy vol.1 and 2 скан Prives

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. Sapin Human Anatomy 1 vol Sapin Human Anatomy 2 vol

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

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

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

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

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

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

9. Колесников Л.Л. Анатомия человека: атлас в 3 томах. - М.: ГЭОТАР-Медиа, 2017-2018, 2022-2023. Т.1: Остеология, артросиндесмология, миология – 480 с. https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=497926&id b=0 Т.2: Спланхнология - 672 с. https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=475725&idb=0

Т.3: Неврология, эстезиология - 624 с. https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=508318&idb=0

Discipline workbooks (manual training):

1. Kozlov V.I., Gurova O.A., Kokoreva T.V., Anatomy of the skeleton. Workbook. Educational allowance. - M .: Practical Medicine, 2019 .-- 72 p.
2. Kozlov V.I., Gurova O.A., Kokoreva T.V. Skull anatomy. Workbook. Educational allowance. - M .: Practical Medicine, 2018 .-- 44 p.
3. 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.
5. Kozlov V.I., Sakharov V.N. Anatomy of the digestive and respiratory systems. Working notebook. Tutorial. - M .: Practical Medicine, 2019 .-- p.
6. Kozlov V.I., Gurova O.A. Anatomy of the kidneys and urinary organs. Workbook. Tutorial. - M .: Practical Medicine, 2018 .-- 70 p.
7. Kozlov V.I., Naumets L.V., Kuchuk A.V. Anatomy of the heart. Workbook. Educational allowance. - M .: Practical Medicine, 2018 .-- 45 p.
8. Kozlov V.I., Kokoreva T.V. Arteries and veins anatomy. Workbook. Educational allowance. - M .: Practical Medicine, 2020. –98 p.

9. Kozlov VI, Tsekhmistrenko TA Anatomy of the spinal cord and brain. Working notebook. Tutorial. - M .: Practical Medicine, 2018 .-- 126 p.
10. Kozlov VI, Tsekhmistrenko TA Anatomy of the peripheral nervous system. Working notebook. Tutorial. - M .: Practical Medicine, 2020. - 112p.
11. Kozlov V.I., Tsekhmistrenko T.A., Tsvetkova T.Yu. Oral cavity anatomy. Working notebook. Tutorial. - M .: Practical Medicine, 2018 .-- 70 p.
12. Kozlov V.I., Tsekhmistrenko T.A., Tsvetkova T.Yu. Anatomy of the teeth. Workbook. Tutorial. - Moscow: Practical Medicine, 2019 .-- 80 p.

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. Anatomy vol.1 and 2 скан Prives
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. Sapin Human Anatomy 1 vol Sapin Human Anatomy 2 vol
3. Atlas of Human Anatomy: a textbook for medical students in 3 volumes / R.D. Sinelnikov, Ya.R.Sinelnikov. – Mir Publisher Moscow. - 1989. англ Синельников
4. Atlas «Virtual anatomy 3D» [Electronic source]: V.I. Kozlov, D.I. Landau, S.V. Rubtsov. Артекса, 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

b) Additional (optional) reading (sources)

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. Arteksa, 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. Moore - Clinically Oriented Anatomy 7th Ed by allmedicalstuff.com.pdf
2. Wheeler's Dental Anatomy, Phisiology and Occlusion 9th edition / Stanley J. Nelson. – printed in China, 2010. – 401 p. Wheeler Dental anatomy.pdf

3. Terminologia Anatomica (International Anatomical Nomenclature) / edited by L.L. Kolesnikov. – M. Medicina, 2003. – 424 p. Колесников Л.Л. - Международная анатомическая терминология - 2003.pdf

Software:

- interactive teaching and research technology "Anatomical table" with software «Anatomage»;
- interactive teaching and research technology "Anatomical table" with software «Arteksa»$
- 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 outresourced 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
   - 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. Anatomy of the head and neck"**.
2. Guidelines for the implementation and design of control and independent work on the discipline **"Human Anatomy. Anatomy of the head and neck"**

* - 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 (parts of competencies) based on the results of mastering the discipline **"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:

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