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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**

# **TOPOGRAPHIC ANATOMY AND OPERATIVE SURGERY OF THE HEAD AND NECK**

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course title

**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

2023-2024

## 1. COURSE GOAL(s)

The goal of the course «**Topographic Anatomy and Operative Surgery of the Head and Neck**» is to equip students with the knowledge in the field of anatomy and surgery; to ensure basic knowledge and skills needed for future studies in the clinical departments and independent medical practice; to meet learning objectives.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «Topographic Anatomy and Operative Surgery of the head and neck» is aimed at the development of the following competences /competences in part: GPC -7.1; 7.2; 7.3; 7.4; GPC -9.3

*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</b> (within this course)
GPC-7	Being able to organize work and take professional decisions in case of emergency conditions, amid emergencies, epidemics, and in the foci of mass destruction	GPC-7.1. Being able to use the algorithm for providing first aid in emergency conditions, including in extreme conditions and foci of mass destruction. GPC-7.2. Identifying conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and acute respiratory failure. GPC-7.3. Providing emergency medical care to patients with conditions that pose a threat to the patient's life, including clinical death (cessation of the vital bodily functions (blood circulation and (or) breathing)). GPC-7.4. Using drugs and medical products when providing emergency medical care.
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 morpho-functional, physiological states and pathological processes of the human body.

## 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>
GPC-7	Being able to organize work and take professional decisions in case of emergency conditions, amid emergencies, epidemics, and in the foci of mass destruction	-	General Surgery; Surgical Diseases; Disaster Medicine; Obstetrics; Maxillofacial and Orthognathic Surgery; Head and Neck Diseases; Emergency Conditions in Outpatient Dentistry Practice; Medical Rehabilitation; Implantology and Reconstructive Surgery.
GPC-9.3	Determining morpho-functional, physiological states and pathological processes of the human body.	Biological Chemistry - Oral Biochemistry; Human Anatomy - Anatomy of Head and Neck; Histology, Embryology, Cytology - Oral Histology; Normal Physiology- Physiology of Maxillofacial Region; Microbiology, Virology - Oral Microbiology. Medical Elementology; Bioelements in Medicine.	Pathologic Anatomy - Pathologic Anatomy of Head and Neck; Pathophysiology - Pathophysiology of Head and Neck; Forensic Medicine; Obstetrics; Pediatric Dentistry; Orthodontics and Pediatric Prosthodontics; Medical Rehabilitation. Observing and Assisting a Dentist (Pediatric); Observing and Assisting a Dentist (General Dentistry), Including Research Practice.

\* 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 is 3 credits (108 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
			4
<i>Contact academic hours</i>		<b>54</b>	<b>54</b>
including:			
Lectures (LC)			
Lab work (LW)			
Seminars (workshops/tutorials) (S)		54	54
<i>Self-studies</i>		36	36
<i>Evaluation and assessment (exam/passing/failing grade)</i>		18	18
<b>Course workload</b>	academic hours	<b>108</b>	<b>108</b>
	credits	<b>3</b>	<b>3</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> Topographic anatomy of the head	Topographic anatomy and operative surgery as an educational discipline and its place in the training of doctors. Applied anatomy and its main types. Operative surgery: contents and methods of study. Topographic anatomy of the head.	S
	Topographic anatomy of the cerebral part of the head. Cranial vault. Fronto-parietal-occipital, temporal regions, the area of the mastoid process. Brain. Meningeas of the brain and intermeningeal spaces. Sinuses of the dura mater. Blood supply to the brain.	S
	Topographic anatomy of the facial part of the head. Anterior face region. The area of the orbit. Infraorbital and zygomatic areas. Nose area. External nose. Nasal cavity. Paranasal (accessorial) sinuses. Pathways of pus spreading at maxillitis and sinusitis.	S
	Topographic anatomy of the mouth region. Surgical anatomy of the upper and lower lips.	S

	Oral cavity. The vestibule of the mouth. Teeth, periodont, parodont, gums. The hard palate, soft palate, tongue and the sublingual space. The bottom of the oral cavity: the muscles, cellular tissue gaps and spaces. Topographic-anatomical substantiation of anesthesia in maxillo-facial surgery (infiltration, extra- and intraoral, conduction anesthesia during operations on the maxillo-dental segment, the teeth, formations of the oral cavity).	
	Topographic anatomy of the lateral superficial face region. Surgical anatomy of the facial nerve and its branches. Buccal region. Fat body of the cheek. Parotid-masseteric region. Surgical anatomy of the parotid gland and its excretory duct. Surgical anatomy of the temporomandibular joint.	S
	Topographic anatomy of the deep lateral face region. Venous pterygium plexus. Surgical anatomy of the maxillary artery and mandibular nerve. Cellular spaces and pathways of spreading burrowing pus.	S
<b>Module 2.</b> Topographic anatomy of the neck	The division into the parts, regions and triangles. Fascias and cellular spaces of the neck. The middle region of the neck. Submandibular and carotic triangles. Surgical anatomy of the submandibular salivary gland. Submental and scapular-tracheal triangles.	S
	Sterno-claido-mastoid region. Sceno-vertebral triangle. The lateral neck region. The topography of the subclavian artery and vein, the brachial plexus. Antescalene and interscalene spaces. Surgical anatomy of: larynx, trachea, pharynx, cervical esophagus and thyroid gland.	S
<b>Module 3.</b> Operative surgery of the head and neck	Surgical instruments. Suture material. The main elements of operational techniques are: the separation of tissues, stop bleeding, application and removal of skin sutures, tying ligature knots.	S
	Operations on the head. Primary surgical treatment of the head wounds. Trepanation. Trepanation of mastoid procesus. Incisions at parotiditis. Restorative and reconstructive operations in malformations of the lips, palate. Incisions in phlegmon of the mouth floor.	S
	Operations on the neck. Primary surgical treatment of neck wounds. Incisions in phlegmon of the neck. Tracheostomy. Conicotomy. Operations on the thyroid gland.	S

\* - 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 <b>(if necessary)</b>
Lab work	Classroom for workshops or lab work, tutorials, interim and mid-term assessment, equipped with a set of professional medical tables, anatomical, plastinated and wet anatomical materials and multimedia projectors.	List of visual anatomical posters, tables, models, bas-reliefs. plastinated materials (preserved (cadaveric) plastinated biomaterial); wet anatomical specimens (preserved (cadaveric) biomaterial in formalin solution in glass containers). Technology support: Epson EMP-S1 multimedia projector; a stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype.
Lab work	Classroom for seminars (workshops), group and individual consultations, interim and mid-term assessments, equipped with a set of specialized furniture; whiteboard (screen) and multimedia presentation equipment.	Set of specialized equipment: operating microscope "Carl Zeiss Jena"; endovideosurgical complex "Azimuth"; anatomical table "Anatmage" (interactive 3D-visualization, 3D-visualization table); sets of general and special surgical instruments; visual posters, tables, stands. Technology support: NEC VT59 multimedia projector; stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype.

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study <b>(if necessary)</b>
Seminar	Classroom for seminars (workshops), group and individual consultations, interim and midterm assessments, equipped with a set of specialized furniture; whiteboard (screen) and multimedia presentation equipment.	Set of specialized furniture: desk with faux stone top; portable shadowless lamp. Negatoscope H-48. Technology support: Epson EB-W29 multimedia projector, stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype.
Self-studies	Room for students' self-study (it can also be used for seminars and consultations), equipped with a set of special furniture and a whiteboard (screen), and multimedia presentation equipment, with access to the E-learning environment.	Technology support: Epson EMP-S1 multimedia projector, internet access. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype. Simulators for operative surgery: human skin, vascular, intestinal simulator, suture kits, surgical instruments.

\* The premises for students' self-studies are subject to **MANDATORY** mention

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *Main readings:*

- 1) Netter's Clinical Anatomy / J.T. Hansen, F.H. Netter. - 4th Edition. - Philadelphia: Elsevier, 2019. - 588 p.
- 2) Gray's Anatomy for Students / R.L. Drake, W.A. Vogl, Mitchell Adam W.M. - Third Edition. - Philadelphia: Elsevier, 2015. - 1161 p.: il.

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

- 1) Topographic anatomy and operative surgery: textbook/A.V.Nikolaev.-Moscow.-Geotar-Media, 2019.

[http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn\\_FindDoc&id=497916&idb=0](http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=497916&idb=0)

### *Additional readings:*

#### ***Printed publications:***

- 1) Atlas of human anatomy/ F.H. Netter. - 6th ed.; International edition. - Philadelphia: Saunders: Elsevier, 2014. - 591 p.: il

#### ***Internet (based) sources***

1. ELS of RUDN University and third-party ELS, to which university students have access:

- <http://lib.rudn.ru/MegaPro/Web>
- <http://www.biblioclub.ru>
- <http://www.biblio-online.ru>
- [www.studentlibrary.ru](http://www.studentlibrary.ru)
- <http://e.lanbook.com/>

2. Databases and search engines:

- <http://docs.cntd.ru/>
- <https://www.yandex.ru/>
- <https://www.google.ru/>
- <http://www.elsevierscience.ru/products/scopus/>

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

1. The set of lectures on the course «**Topographic Anatomy and Operative Surgery of the Head and Neck**»

2. The laboratory workshop (if any).on the course «**Topographic Anatomy and Operative Surgery of the Head and Neck**»

3. The guidelines for writing a course paper / project (if any) on the course «**Topographic Anatomy and Operative Surgery of the Head and Neck**».

4. ....

\* 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 (GPC -7.1; 7.2; 7.3; 7.4; GPC -9.3) 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:**

Associate Professor of the  
Department of Operative  
surgery and Clinical anatomy  
named for I.D. Kirpatovsky

D.L. Titarov

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position, department

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signature

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name and surname



Head of laboratory of the  
Department of Operative  
surgery and Clinical anatomy  
named for I.D. Kirpatovsky

position, department

E.E. Savchenkova

signature

name and surname

**HEAD of the Department:**

Of Operative surgery  
and Clinical anatomy named  
for I.D. Kirpatovsky

name of the department

A.V. Protasov

signature

name and surname

**HEAD of the Higher Education Program:**

First Deputy Director of MI  
for Academic Affairs

position, department

S.N.Rasumova

signature

name and surname