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#### **MEDICAL INSTITUTE**

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

## **COURSE SYLLABUS**

#### TOPOGRAPHIC ANATOMY AND OPERATIVE SURGERY

course title

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

**31.05.01** General Medicine

field of studies / speciality code and title

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

**General Medicine** 

higher education programme profile/specialisation title

2024/2025

## 1. COURSE GOAL(s)

The goal of the course "Topographic anatomy and operative surgery" is to equip students with the knowledge in the field of anatomical and surgical training of students necessary for subsequent work in clinical, primarily surgical, departments and subsequent independent activity.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) **«Topographic anatomy and operative surgery»** is aimed at the development of the following competences /competences in part: GPC-4, GPC-5, GPC-6.

Competence	Competence descriptor	Competence formation indicators
code	Competence descriptor	(within this course)
GPC-4	Being able to use medical devices provided for by the procedure for medical care, and conduct patient examinations in order to determine a diagnosis	GPC-4.1. Being able to use medical devices in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, care taking into account the medical care standards. GPC-4.2. Being able to assess the effectiveness and safety of medical devices. GPC-4.3. Mastering the technique of performing typical medical procedures using medical devices provided for by the procedures for medical care provision.
GPC-5	Being able to assess morpho- functional, physiological conditions and pathological processes in the human body to solve professional tasks	GPC-5.3. Being able to determine morpho- functional, physiological states and pathological processes of the human body.
GPC-6	Being able to organize patient care, provide primary health care, arrange work and make professional decisions in emergency conditions at the prehospital stage, in emergency situations, epidemics and in foci of mass destruction	GPC-6.1. Mastering the algorithm for providing first aid in emergency conditions, including in extreme conditions and foci of mass destruction. GPC-6.3. Being able to provide emergency medical care to patients in conditions that pose a threat to the life of a patient, including clinical death (cessation of the vital bodily functions (blood circulation and (or) breathing).

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

#### **3.COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE**

The course refers to the <u>core/variable/elective\*</u> 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	Competence	Previous courses/modules*	Subsequent
code	descriptor	r revious courses/mounes.	courses/modules*

and t	D 11	G 10	
GPC-4	Being able to use medical devices provided for by the procedure for medical care, and conduct patient examinations in order to determine a diagnosis	General Surgery; Biotechnology; Physics; Chemistry; Bioorganic chemistry; Pharmacology; Introductory practice for obtaining primary professional skills: patient care (simulation center); Introductory practice for obtaining primary professional skills: patient care; Practice of diagnostic profile: assistant ward nurse; Practice in obtaining primary professional skills: assistant to junior medical staff;	Neurology, medical genetics, neurosurgery; Endocrinology; Anesthesiology, intensive care, intensive care; Traumatology, orthopedics; General medical skills; Urgent conditions; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Experimental oncology;
GPC-5	Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	Biochemistry; Normal physiology; General Surgery; Biology; Microbiology, virology; Pathophysiology, clinical pathophysiology; Propaedeutics of internal diseases; Immunology; Pathological anatomy, clinical pathological anatomy; Chemistry; Pharmacology; Bioorganic chemistry; Anatomy; Histology, embryology, cytology;	Obstetrics and gynecology; Oncology, radiation therapy; Molecular genetic methods; Methods of microbiological diagnostics; Phthisiology; Anesthesiology, intensive care, intensive care; Ophthalmology; Methods of cell biology and histology; Forensic medicine; Maxillofacial surgery; Medical forensics; Otorhinolaryngology; Pediatrics;
GPC-6		General Surgery; The basics of military training. Life safety; Introductory practice for obtaining primary professional skills: patient care (simulation center);	Disaster Medicine; Urgent conditions; Infectious diseases;

\* 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 **«Topographic anatomy and operative surgery»** is **6** credits (216 academic hours)..

*Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)*\*

		Total	Semesters/training modules			ules
Type of academic activi	Type of academic activities		6	7		
Contact academic hours		140	<u>68</u>	72		
including:						
Lectures (LC)						
Lab work (LW)		140	68	72		
Seminars (workshops/tutorials) (S)		0	0	0		
Self-studies		37	19	18		
Evaluation and assessment (exam/passing/failing grade)		39	21	18		
Course workload	academic hours_	216	108	108		
	credits	6	3	3		

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

# **5. COURSE CONTENTS**

Course module title	Course module contents (topics)	Academic activities types
Module 1. Topographic anatomy of the extremities	<b>Topic 1.1.</b> Theoretical foundations of topographic anatomy. Topographic anatomy and operative surgery as an educational discipline and its place in the training of doctors. Applied anatomy: its main types. Operative surgery, its content and methods of studying. Fascias, cellular spaces and their clinical value.	LW
	<b>Topic 1.2.</b> Shoulder girdle: subclavian, deltoid, scapular, axillary regions. Shoulder. The elbow region. The borders. External landmarks. Layers. Blood vessels and nerves. Surgical anatomy of the shoulder and elbow joints. Capsules, extraarticular and intra-articular formations. Blood supply and innervation of joints.	LW
	<b>Topic 1.3.</b> Forearm, hand. The borders. External landmarks. Layers. Surgical anatomy of the wrist joint. Capsule, extraarticular and intra-articular formations. Blood supply and innervation of the joint.	LW
	<b>Topic 1.4.</b> The gluteal region: borders, external relief, layers. Hip: boundaries, external landmarks, division into areas, layers. Femoral triangle. Neurovascular bundles. Inguinal lymph nodes. Surgical anatomy of the femoral canal, occlusion canal, adductor muscle canal. Surgical anatomy of the hip joint. Capsule, extra-articular and intra-articular formations. Blood supply and innervation of the joint.	LW
	<b>Topic 1.5.</b> Knee region. Knee joint: ligaments, synovial bags. Shin. Foot. The borders. External relief. Division into regions. Layers. Surgical anatomy of the medial malleolar, calcaneal and plantar canals. Surgical anatomy of the knee and ankle joints. Capsules, extra-articular and intra-articular formations. Blood supply and innervation.	LW

Table 5.1. Course contents and academic activities types

Module 2.Topic 2.1. Head. Borders, departments and regions. External landmarks. Cranial vault. Frontal - parietal - occipital region. Temporal region. Meninges and intermembranous space. Topographic anatomy of the venous sinuses of the dura mater. Face. Superficial and deep lateral face regions.LWTopic 2.2. Neck. Borders, areas, layers of the neck. Connections of the neck cellular spaces with the cellular spaces of the head, thorax and upper limb. Fascias and fat cellular spaces of the neck. The anterior neck region: submandibular triangle, carotid triangle, scalenovertebral triangle. Sternoclavicularmastoid region and lateral region of the neck. Surgical anatomy of the neck organs: the esophagus, trachea, thyroid gland.LWTopic 2.3. Thorax. Chest wall. The mammary gland. Topic 2.4. Thoracic cavity. Surgical anatomy of the lungs. Clinical anatomy of the heart. Mediastinum. Surgical anatomy of organs of the anterior and posterior mediastinum.LW
anatomy of the head, neck, thoraxTemporal region. Meninges and intermembranous space. Topographic anatomy of the venous sinuses of the dura mater. Face. Superficial and deep lateral face regions.LW <b>Topic 2.2.</b> Neck. Borders, areas, layers of the neck. Connections of the neck cellular spaces with the cellular spaces of the head, thorax and upper limb. Fascias and fat cellular spaces of the neck. The anterior neck region: submandibular triangle, carotid triangle, scalenovertebral triangle. Sternoclavicularmastoid region and lateral region of the neck. Surgical anatomy of the neck organs: the esophagus, trachea, thyroid gland.LW <b>Topic 2.3.</b> Thorax. Chest wall. The mammary gland. Topography of intercostal spaces. Surgical anatomy of the lungs. Clinical anatomy of the heart. Mediastinum. Surgical anatomy of organs of the anterior and posterior mediastinum.LW
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Connections of the neck cellular spaces with the cellular spaces of the head, thorax and upper limb. Fascias and fat cellular spaces of the neck. The anterior neck region: submandibular triangle, carotid triangle, scalenovertebral triangle. Sternoclavicularmastoid region and lateral region of the neck. Surgical anatomy of the neck organs: the esophagus, trachea, thyroid gland.Topic 2.3. Thorax. Chest wall. The mammary gland. diaphragm. Pleura and pleural sinuses.LWTopic 2.4. Thoracic cavity. Surgical anatomy of the lungs. Clinical anatomy of the heart. Mediastinum. Surgical anatomy of organs of the anterior and posterior mediastinum.LW
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Clinical anatomy of the heart. Mediastinum. Surgical anatomy of organs of the anterior and posterior mediastinum.
Clinical anatomy of the heart. Mediastinum. Surgical anatomy of organs of the anterior and posterior mediastinum.
Module 3. Topic 3.1. Abdomen. The borders. External relief, landmarks. LW
Topographic Division into departments and regions. Projection of the
anatomy of the abdominal organs onto the anterolateral wall of the abdomen.
abdomen, pelvis Blood, lymphatic vessels and nerves. Topographic anatomy of
and perineum the abdomen. Anterolateral wall of the abdomen. Weak points
of the anterior abdominal wall. Linea alba and the umbilical
ring. Inguinal region. Surgical anatomy of the inguinal canal.
Surgical anatomy of the spermatic cord. Surgical anatomy of
the inguinal, femoral and umbilical hernias.
Topic 3.2. Abdominal cavity. Peritoneum. Ligaments, burses, LW
channels, sinuses, great and small omentum. Surgical anatomy
of abdominal cavity upper floor organs: stomach, duodenum,
liver, gallbladder and extrahepatic bile ducts, spleen, pancreas.
Topic 3.3. Surgical anatomy of the abdominal cavity lower LW
floor organs: small intestine, large intestine. Posterior
abdominal wall. Musculoaponeurotic and fascial formation of
posterior abdominal wall.
Topic 3.4. Retroperitoneal space. Fascia and cellular spaces. LW
Surgical anatomy of organs and neurovascular structures: the
kidney, ureter, adrenal glands, abdominal aorta, vena cava
inferior, thoracic lymph duct.
<b>Topic 3.5.</b> Topographic anatomy of the pelvis. fascia, cellular LW
spaces. surgical anatomy of the male pelvis: the rectum, urinary
bladder, ureter, prostate, seminal vesicles, vas deferens. surgical
anatomy of the female pelvis: the rectum, uterus and its
appendages, the bladder, ureter.
Topic 3.6. Topographic anatomy of the perineum. fascia, LW
cellular spaces. pelvic and urogenital diaphragm. surgical
anatomy of the perineum in men and women: the urethra,
scrotum, testicle, spermatic cord, vagina. Operations for
wounds of the rectum and urinary bladder. operations for an
ectopic (tubal) pregnancy.
Module 4. Topic 4.1. Operative surgery: content and methods of study. LW

Operative surgery	The basics of the doctrine of surgery. Modern trends and	
	prospects of operative surgery. Preparation for surgery and	
	anesthesia. General surgical technique. Surgical instruments.	
	Basic operational techniques: separation of tissues, stop	
	bleeding, put on and removal of skin nodes sutures, tying	
	surgical knots.	
	<b>Topic 4.2.</b> Transplantation of organs and tissues. Types of	LW
	transplantation. Features of organ transplant surgery. Main	
	problems and prospects for the development of transplantology.	
	<b>Topic 4.3.</b> Intestinal suture. Intestinal anastomoses. Suturing of	LW
	wounds of the stomach, small intestine and colon. Resection of	
	the small intestine. Intestinal suture. Anatomical and	
	physiological basis. Types. Requirements for the seam.	
	<b>Topic 4.4.</b> Surgical approach to abdominal cavity organs:	LW
	traditional, endoscopic. Abdominal wall hernias. Hernioplastic	2
	operations. Operations in wounds of the liver. Extrahepatic	
	biliary tract surgery. Cholecystectomy. Pancreatic surgery.	
	<b>Topic 4.5.</b> Operations on abdominal cavity organs: tradition	LW
	and laparoscopic. Revision of the abdominal cavity with	
	penetrating wounds. Appendectomy. Operations on the	
	stomach: gastrostomy, gastro-intestinal anastomosis	
	(gastrojejunostomy), resection of the stomach. Operations on	
	the stomach.	
	Topic 4.6. Primary surgical treatment of wounds of the	LW
	extremities. Amputation of limbs. Operations on the joints of	
	the limbs. Operations on blood vessels of the limbs. Vascular	
	suture. Anatomical and physiological basis. Types.	
	Requirements for the seam. Operations on the peripheral nerves	
	and tendons: suture of nerve, suture of tendon. Anatomical and	
	physiological basis. Types. Requirements for the seam.	
	<b>Topic 4.7.</b> Trepanation of the skull. Trepanation of the mastoid	LW
	process. Primary surgical treatment of wounds head and neck.	
	Operations in phlegmons and abscesses of the neck. Operations	
	on the thyroid gland. Tracheostomy.	
	<b>Topic 4.8.</b> Primary surgical treatment of wounds of the thorax.	LW
	Operations on the mammary gland. Operative access to the	
	organs of the thoracic cavity. Principles of surgical	
	interventions on lungs, heart, esophagus.	
	in only for <b>full</b> time training: IC - lectures: IW - lab work: S - seminars	I

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

# 6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lab work	Classroom for seminars (workshops),	List of visual anatomical posters,
№ 2 (234)	group and individual consultations,	tables, models, bas-reliefs.
	interim and mid-term assessments,	plastinated materials (preserved

 Table 6.1. Classroom equipment and technology support requirements

 Specialised ed

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
	equipped with a set of specialized furniture; whiteboard (screen) and multimedia presentation equipment.	<ul> <li>(cadaveric) plastinated</li> <li>biomaterial); wet anatomical</li> <li>specimens (preserved (cadaveric)</li> <li>biomaterial in formalin solution in</li> <li>glass containers).</li> <li>Technology support: Epson EMP-</li> <li>S1 multimedia projector; a stable</li> <li>wireless Internet connection.</li> <li>Software: Microsoft Windows,</li> <li>MS Office / Office 365, MS</li> <li>Teams, Chrome (latest stable</li> <li>release), Skype.</li> </ul>
Lab work № 3 (235)	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 "Anatomage" (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. Simulators for operative surgery: human skin, vascular, intestinal simulator,
Seminar № 4, 5	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.	suture kits, surgical instruments. 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 № 1 (232)	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.	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,

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		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:

Topographic anatomy and operative surgery: textbook/A.V.Nikolaev.-Moscow.-Geotar-Media, 3-rd ed.-2021.-671 p.

- 1) Topographic anatomy and operative surgery: textbook/A.V.Nikolaev.-Moscow.-Geotar-Media/- 2021.-672 p. https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\_FindDoc&id=497916&idb=0
- 2) Netter's Clinical Anatomy / J.T. Hansen, F.H. Netter. 4th Edition. Philadelphia: Elsevier, 2019. 588 p.
- 3) Gray's Anatomy for Students / R.L. Drake, W.A. Vogl, Mitchell Adam W.M. Third Edition. Philadelphia: Elsevier, 2015. 1161 p.: il.
- Topographis and surgical anatomy of the abdomen: educational manual for students of 3-4 courses of the Faculty of Medicine Specialty «Medicine»/ А.В. Протасов, Мекхаеэль Шехата Факхри Мекхаеэль, А.Л. Кулакова, Д.Л.Титаров.-Moscow:2022.-52p.
- 5) Topographo-surginal anatomy and operative surgery of Thorax. Textbooks// М.Ш.Ф. Мекхаеэль, М.Ю. Персов, А.В. Протасов.-Moscow:2022.-73р.
- Topographo-surginal anatomy and operative surgery of Upper Limb. Textbooks// М.Ш.Ф. Мекхаеэль, К.А. Лаймуна, М.Ю. Персов, А.В. Протасов.-Moscow:2022.-86p.

#### Additional readings:

- 1. Topographic and clinical anatomy the human body/I.I.Kagan, S.N.Lyashchenko, A.O.Mironchev.- Moscow.-Geotar-Media, 2022.-253.
- Topographic and anatomy of the human body: the teaching aid for foreign students/I.I.Kagan, S.N.Lyashchenko, A.O.Mironchev.- Moscow.-Geotar-Media, 2022.-256 p. <u>https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\_FindDoc&id=508879&idb=0</u>
- 3. General surgery / V.K. Gostishchev. Moscow.-Geotar-Media, 5th ed.-2021.-799p.
- 4. General surgery. The manual/ V.K. Gostishchev. Moscow.-Geotar-Media.-2020.-220p. https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\_FindDoc&id=497901&idb=0
- 5. Anatomy for plastic surgery of the Face, Head and Neck/ Koichi Watanabe-Mohammadali M. Shoja, Marios Loukas, R.Shane Tubbs.-2016.-242. https://lib.rudn.ru/MegaPro/Web/SearchResult/ToPage/1#:~:text=https%3A//lib.rudn.ru%3A 443/MegaPro/UserEntry%3FAction%3DRudn\_FindDoc%26id%3D513494%26idb%3D0
- 6. Atlas of human anatomy/ F.H. Netter. 6th ed.; International edition. Philadelphia: Saunders : Elsevier, 2014. 591 p.: il.

#### Internet sources

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) <u>http://lib.rudn.ru/MegaPro/Web</u>

- EL "University Library Online" <u>http://www.biblioclub.ru</u>

- EL "Yurayt" http://www.biblio-online.ru

- EL "Student Consultant" <u>www.studentlibrary.ru</u>

- EL "Trinity Bridge"

#### 2. Databases and search engines:

- electronic foundation of legal and normative-technical documentation http://docs.cntd.ru/

- Yandex search engine https://www.yandex.ru/

- Google search engine <u>https://www.google.ru/</u>

- Scopus abstract database 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"

2. The laboratory workshop (if any) on the course "Topographic Anatomy and Operative Surgery"

3. The guidelines for writing a course paper / project (if any) on the course "Topographic Anatomy and Operative Surgery".

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-4, GPC-5, GPC-6) 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

position, department

D.L. Titarov

name and surname

Head of Operative surgery and Clinical anatomy named for

I.D. Kirpatovsky

A.V. Protasov

position, department

signature

signature

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

of operative surgery	of O	perative	surgery
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and Clinical anatomy named for

I.D. Kirpatovsky

A.V. Protasov

Y.Sh.Gushchina

name of department

signature

name and surname

#### HEAD OF HICHER EDI

# OF HIGHER EDUCATION PROGRAMME:

Deputy Director for International

Affairs of Medical Institute of the

**RUDN** University

position, department

signature

1

name and surname