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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**

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

COURSE SYLLABUS

General surgery

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

2026

1. COURSE GOAL(s)

The discipline «General Surgery» is included in the program of the specialty «Dentistry» in the field of studies 31.05.03 «Dentistry» and is studied in the 5th semester of the 3rd year. The discipline is implemented by the Department of Faculty Surgery. The discipline consists of 2 sections and 17 topics.

The goal of the course “General Surgery” is to master the basics of clinical examination of surgical patients, to familiarize students with the principles of surgical treatment methods and semiotics of the main types of surgical diseases.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) “General surgery” is aimed at the development of the following competences /competences in part: GPC-5, GPC-6, GPC-7.

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-5	Being able to examine patients to determine a diagnosis when solving professional tasks	GPC-5.1. Gathering anamnesis by analyzing the patient’s complaints, making a physical examination at a dental appointment.
		GPC-5.2. Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient.
		GPC-5.3. Compiling medical documentation for a patient in accordance with regulatory requirements.
GPC-6	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	GPC-6.1. Developing a plan for dental disease treatment taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the medical care standards.
		GPC-6.2. Selecting medical products (including dental materials) for drawing up a comprehensive plan for dental disease treatment. Following up the treatment of a patient.
		GPC-6.3. Assessing the possible side effects of taking medicinal drugs.
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 organs functions (blood circulation and (or) breathing)).

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*
GPC-5	Being able to examine patients to determine a diagnosis when solving professional tasks	Propaedeutics of internal diseases, Pathological physiology, Human anatomy	Internal diseases Surgical diseases Neurology
GPC-6	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	Propaedeutics of internal diseases, Pathological physiology, Human anatomy	Internal diseases Surgical diseases Neurology
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	Propaedeutics of internal diseases, Pathological physiology, Human anatomy	Internal diseases Surgical diseases Neurology

* 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 "General Surgery" is 4 credits (144 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	
		5	
<i>Contact academic hours</i>	68	68	
including:			
Lectures (LC)	-	-	
Lab work (LW)	68	68	
Seminars (workshops/tutorials) (S)	-	-	
<i>Self-studies</i>	49	49	
<i>Evaluation and assessment (exam/passing/failing grade)</i>	27	27	

Course workload	Academic hours	144	144	
	Credits	4	4	

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

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Name of the discipline section	Topic name Content of the section	Type of educational work*	
Section 1. General issues	1.1 Asepsis. Antiseptics The study of a set of measures aimed at preventing pathogens from entering a wound or the human body. The study of a set of measures aimed at combating infection in the human body, preventing or eliminating the infectious inflammatory process.	LW	
	1.2 Bleeding, blood loss.	Definition. Etiology. Pathogenesis. Clinic. Classification. Diagnostics. Treatment.	LW
	1.3 Transfusion of blood and its components. Posttransfusion complications. Fundamentals of transfusiology. Basic hemotransfusion media. Blood antigenic systems and their role in transfusiology. Determination of blood type and Rh factor. Methods of blood transfusion. Reactions and complications of blood transfusion. Methods of their prevention and treatment.	LW	
	1.4 Preoperative period. Operation. Operation day. Postoperative period. Examination and preparation of patients for emergency, urgent and planned surgical interventions. The device of the operating unit. Stages of the operation. Management of the patient in the postoperative period.	LW	
	1.5 Wounds. Burns. Burn disease. Frostbites. Necrosis, ulcers, fistulas. Definition. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Treatment.	LW	
	1.6 Plastic surgery. The concept of aesthetic and reconstructive plastic surgery.	LW	
	1.7 Fundamentals of surgical oncology. The doctrine of tumors. Methods of early diagnosis. Principles of treatment.	LW	
	1.8 Local anesthesia, blockades. Special diagnostic methods in surgery.	LW	

	Types of local anesthesia. Types of blockades.	
Section 2. Particular issues	2.1 Local and general body reaction to infection. Principles of treatment of purulent infection. Pathogenesis and the body's response to inflammation. Clinic. Diagnostics. Principles of treatment. Clinical signs and features of examination and treatment of patients.	LW
	2.2 Purulent infection of soft tissues (furuncle, carbuncle, hidradenitis, erysipelas, abscess, phlegmon). Definition. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Treatment.	LW
	2.3 Purulent inflammation of glandular organs (mastitis, mumps). Purulent infection of lymphatic and blood vessels. Definition. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Treatment.	LW
	2.4 Purulent infection of the abdominal cavity (peritonitis). Purulent chest infection. Definition. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Treatment.	LW
	2.5 Purulent diseases of the hand (panaritium, phlegmon). Definition. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Treatment.	LW
	2.6 Paraproctitis. Definition. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Treatment.	LW
	2.7 Osteomyelitis. Anaerobic infection Definition. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Treatment.	LW
	2.8 Soft tissue bruises. First aid for fractures and dislocations. Treatment of fractures. Treatment of dislocations Desmurgy. Definition. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Treatment. General principles of organization and first aid. Classification of fractures and dislocations. Fundamentals of transport immobilization. Principles of treatment of fractures and dislocations. Diagnostics. The teaching of bandages, their proper application and application.	LW
	2.9 Traumatic brain injury. Abdominal injuries. Chest injuries. Definition. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Treatment.	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

Classroom type	Equipment of the classroom	Specialized educational/laboratory equipment, software and materials for the development of the discipline (if necessary)
Computer lab	A computer classroom for conducting classes, group and individual consultations, ongoing monitoring and intermediate certification, equipped with personal computers (in the amount of 1 pc.), a blackboard (screen) and multimedia presentation equipment.	Software: Microsoft products (OS, office suite, including MSOffice/Office 365), laptops, multimedia projectors. Surgery videos. Digital versions of lectures and seminars on surgery, video materials from foreign surgical clinics, handouts in the form of tests, posters, methodological publications.
Self-studies	A classroom for students' independent work (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS.	Software: Microsoft products (OS, office suite, including MSOffice/Office 365), laptops, multimedia projectors. Surgery videos. Digital versions of lectures and seminars on surgery, video materials from foreign surgical clinics, handouts in the form of tests, posters, methodological publications.
An auditorium at the clinical base of the department for conducting laboratory and clinical classes	An auditorium for laboratory work and clinical classes, individual consultations, ongoing monitoring and intermediate certification, equipped with a set of specialized furniture and equipment	Laboratory and diagnostic equipment of the clinical bases of the department. Software: Microsoft products (OS, office suite, including MSOffice/Office 365), laptops, multimedia projectors. Surgery videos. Digital versions of lectures and seminars on surgery, video materials from foreign surgical clinics, handouts in the form of tests, posters, methodological publications.

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Gostischev V.K. General Surgery: textbook. Fifth edition, revised and expanded. Moscow: GEOTAR-MEDIA, 2022. - 736s.
2. Klimov A.E., Pautkin Yu.F. General surgery: textbook : in 2 hours. Moscow: RUDN, 2016.
3. Klimov A.E., Pautkin Yu.F. A guide to practical exercises in general surgery: in 3 parts. Moscow: RUDN, 2015.

4. Klimov A.E., Pautkin Yu.F., Barkhudarov A.A. General surgery. Lecture notes: in 2 parts. Moscow: RUDN, 2016.

b) additional readings

1. Rodoman G.V. General surgery. The main clinical syndromes of GEOTAR-MEDIA, 2016.
2. Gostischev V.K. A guide to practical exercises in general surgery. In English. General surgery. The manual. GEOTAR-MEDIA, 2015.
3. Pautkin Yu.F., Klimov A.E., Practical training on patient management in a surgical clinic. M., RUDN, 2019.

Database, information and referral systems and search systems.

1. EBS RUDN and third-party EBS, to which university students have access on the basis of concluded contracts
 - RUDN Electronic Library system - EBS RUDN <http://lib.rudn.ru/MegaPro/Web>
 - EBS "University Library Online" <http://www.biblioclub.ru>
 - ABS Yurayt <http://www.biblio-online.ru>
 - EBS "Student Consultant" www.studentlibrary.ru
 - EBS "Znanium" <https://znanium.ru/>
2. Databases and search engines
 - electronic Fund of legal and normative-technical documentation <http://docs.cntd.ru/>
 - search engine Yandex <https://www.yandex.ru/>
 - Google search engine <https://www.google.ru/>
3. Additional materials:
 - Gastrointestinal endoscopy portal. The portal contains constantly updated videos, reports, articles, reports on diagnostic and operative endoscopy; there is an extensive selection of links to Internet resources on endoscopy, gastroenterology, search engines for access to medical journals. <http://www.gi-endo.ru/>
 - Website ENDOSCOPY.RU. A website where you can find complete and professional information about modern achievements, possibilities and prospects of diagnostic and therapeutic endoscopy. Of particular interest is the subsection "Methodological recommendations". <http://www.endoscopy.ru/>
 - Medical portal MedUniver. The portal contains a medical photo atlas, videos on various branches of medicine, and a medical electronic library. <http://meduniver.com/>
 - Portal about surgery. Contains materials on the most common surgical diseases (clinic, diagnosis and treatment). <http://www.hyurg.com/>
 - Medical video portal. The site contains video recordings of lectures from leading Russian medical universities; surgical operations with comments; presentations at scientific medical congresses and conferences; three-dimensional animated videos that clearly demonstrate the work of various organs and systems; educational materials on fundamental sciences; directory of medical sites; a forum for the exchange of views; information about medical institutions. <http://www.med-edu.ru/>

Educational and methodological materials for students' independent work in the development of the discipline/module:*

1. Guidelines for the implementation and execution of control and independent work on the discipline

* - all educational and methodological materials for students' independent work are placed in accordance with the current procedure on the page of the discipline in TUIS!

8. EVALUATION MATERIALS AND POINT-RATING SYSTEM FOR ASSESSING THE LEVEL OF COMPETENCE FORMATION IN THE DISCIPLINE

Evaluation materials and point-rating system* for assessing the level of competence formation (GPC-5, GPC-6, GPC-7) based on the results of mastering the discipline "General surgery" are presented in the Appendix to this Work Program.

DEVELOPERS:

Associate Professor, Department of Faculty Surgery		A.A. Barkhudarov
_____	_____	_____
position, department name	signature	initials, last name

Assistant Professor, Department of Faculty Surgery		A.S. Berisha
_____	_____	_____
position, department name	signature	initials, last name

HEAD OF THE DEPARTMENT:

Head of the Department of Faculty Surgery		A.E. Klimov
_____	_____	_____
position, department name	signature	initials, last name

HEAD OF THE PROGRAMME:

Deputy Director of MI		S.N. Razumova
_____	_____	_____
position, department name	signature	initials, last name