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

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

2024

1. COURSE GOAL(s)

The goal of the course "General Surgery" is to equip students with the knowledge and skills in clinical examination of surgical patients, to get knowledge of surgical treatment principles and semiotics of basic 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, andin 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 <u>core</u>/variable/elective* component of (B1) block of the higher educational programme curriculum.

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, andin 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	
		4	5
Contact academic hours	70	36	34
including:			
Lectures (LC)	-	-	-
Lab work (LW)	70	36	34
Seminars (workshops/tutorials) (S)	-	-	-
Self-studies	56	27	29
Evaluation and assessment (exam/passing/failing grade)	18	9	9

Course workload	Academic hours	144	72	72
	Credits	**4**	**2**	**2**

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
General questions	Asepsis. Antiseptics. Bleeding. Blood transfusion. Colloquium. Preoperative period. Operation day. Postoperative period. Wounds. Burns. Frostbite. Wound disease. Necrosis, ulcers, fistulas. Colloquium. Plastic surgery. Fundamentals of surgical oncology. Local anaesthesia, novocaine blockade.	LW
Specific questions	Purulent infection of soft tissues (furuncle, carbuncle, hidradenitis). Purulent infection of soft tissues (erysipelas, abscess, phlegmon). Purulent infection of the lymphatic and blood vessels (lymphadenitis, lymphangitis, thrombophlebitis). Purulent inflammation of the glandular organs (mastitis, parotitis). Purulent infection of the abdominal cavity (peritonitis). Purulent infection of the chest. Purulent diseases of the hand (panaritium, phlegmon). Paraproctitis. Osteomyelitis. anaerobic infection. Soft tissue injuries. Providing first aid for fractures and dislocations. Fracture treatment. Dislocation treatment. Desmurgy. Traumatic brain injury. Injuries to the abdominal organs. Chest injuries.	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	A classroom for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations.	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.
Lab work	A classroom for laboratory work, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and 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.
Seminar	A classroom for conducting seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and technical means for multimedia presentations.	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.

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:
1. V.K. Gostishcev, General surgery, Geotar-Med, 2020
2. Manual of surgery, Alexis Thomson, sixth edition revised
3. Oxford assess and progress clinical surgery
4. Klimov A.E., Pautkin Yu.F. A guide to practical classes in general surgery. M., 2015, RUDN Publishing House. (Part 1, Part 2, Part 3).
5. Klimov A.E., Pautkin Yu.F. General surgery. Textbook. M. 2015. RUDN Publishing House (in 2 parts).

Additional readings:
1. Klimov A.E., Pautkin Yu.F., Barkhudarov A.A. General surgery. Lecture notes. M. 2016.
2. General surgery at the district hospital
3. Basic surgical techniques – 6th edition 2010

4. Pocket Guide to the Operating room

Database, information and referral systems and search systems.

1. TEIS - Telecommunication educational and information system.
http://esystem.rudn.ru/

2. ELS of RUDN University and third-party ELS, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System - RUDN EBS http://lib.rudn.ru/MegaPro/Web
- ELS "University Library Online" http://www.biblioclub.ru
- EBS Yurayt http://www.biblio-online.ru
- ELS "Student Consultant" www.studentlibrary.ru
- EBS "Lan" http://e.lanbook.com/

3. 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/

4. 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/

5. Medical portal MedUniver.

The portal contains a medical photo atlas, videos on various branches of medicine, and a medical electronic library.
http://meduniver.com/

6. Portal about surgery.

Contains materials on the most common surgical diseases (clinic, diagnosis and treatment).
http://www.hyurg.com/

7. 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/

8. Medline catalog.

The founder of "Medline" is the National Library of Medicine USA. Medline is the largest open database of medical information in the world, Medline's catalog includes more than 75% of all world medical publications. MedLine contains all the articles collected in the three main medical reference books: InternationalNursingIndex, IndexMedicus, Index to DentalLitherature.
http://www.medline-catalog.ru/

9. Biomedical journal Medline.ru.

The site contains original articles on various branches of medicine. http://www.medline.ru

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

1. The set of lectures on the course "General Surgery"

* 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-5, GPC-6, GPC-7) 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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HEAD OF EDUCATIONAL DEPARTMENT:

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HEAD
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