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Информация о владельце:

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MINISTRY OF SCIENCE AND HIGHER EDUCATION

RUSSIAN FEDERATION

Federal State Autonomous Educational Institution of Higher Education

NORTH-CAUCASUS FEDERAL UNIVERSITY

APPROVED

Assoc. Prof. Kubanov S.I.

PhD in Medical Sciences

Dean

Faculty of Medicine and Biology

COURSE OUTLINE OF THE DISCIPLINE

General surgery

- Specialty: 31.05.01 General Medicine
- Mode of training: Full-time
- Year of commencement of studies: 2026
- Delivered in Semester 5,6

Developed by:

Associate Professor of the Department
of Surgery, Orthopedics, and Traumatology

Kubanov S.I.

Stavropol 2026

1. Aim and Objectives of Mastering the Discipline (Module)

- Aim of mastering the discipline -To teach students the propaedeutics of surgical diseases and the basics of general surgical pathology, the general principles of diagnosis and treatment of general surgical diseases (including emergencies), the basics of clinical thinking, and the professional skills of reasonable and comprehensive use of imaging methods, which are necessary for further education and professional activities in medical specialties, which are necessary for future professional activities.
- Objectives of mastering the discipline :
 1. provide knowledge about the main stages of the history of surgery and radiation diagnostics;
 2. to provide students with knowledge of medical ethics and deontology, as well as to be able to explain patient complaints.;
 3. -familiarizing students with the principles of organization and operation of radiation diagnostics departments in medical and preventive institutions, and creating favorable conditions for patients and medical personnel;
 4. familiarizing students with occupational safety measures, prevention of occupational diseases, and monitoring compliance and environmental safety when working with radiation imaging equipment;
 5. to teach students the algorithm and skills of conducting a physical examination of a surgical patient (examination, palpation, percussion, auscultation) and radiological examinations, as well as to create an algorithm for conducting radiological examinations in the presence of the main clinical syndromes;
 6. provide knowledge about asepsis and antiseptic care
 7. know the basics of anesthesiology and intensive care
 8. To teach students to diagnose injuries and certain surgical diseases, stop bleeding, determine blood type and Rh factor, perform tests for individual blood compatibility between the recipient and the donor, fill an intravenous infusion system, care for wounds, apply bandages, perform transport immobilization, and examine a surgical patient.

2. Place of the Discipline General surgery in the Structure of the Training (educational) Program

The discipline General surgery belongs to the part compulsory part .

3. List of Potential Learning Outcomes for the Discipline General surgery, Correlated with the Outcomes of Mastering the Educational Program

Code and definition of the competence	Code and definition of the indicator	Planned learning outcomes for the discipline (module) describing the stages of competency and indicator development
PC 4. Capable of determining the tactics of managing patients with various nosological forms.	ID-2 PC-4. Determines the management tactics of patients with various nosological forms.	Formation of clinical thinking Acquisition of special medical skills and their application in practical healthcare

	ID-2 PC-4 Draws up a treatment plan for the patient's disease and condition, taking into account the diagnosis, age, and clinical picture of the disease, in accordance with the current medical care procedures, clinical guidelines (treatment protocols), and medical care standards.	
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4. Volume of the Academic Discipline General surgery and Control *

Volume of classes: Total: 7 ECTS credits, 252 academic hours.	Full-time type of study, in academic hours
Face-to-face work	136
Lectures / including practical training	34
Practical classes / including practical training	102/24
Independent work	80
Forms of control	
Examination	36

4. Content of the Discipline (Module), Structured by Topics (Sections) with an Indication of the Hours and Types of Classes.

#	Section (topic) of the discipline and brief content	Competen cies and indicators to be developed	Full-time training				Forms of current control of academic progress
			Contact work of students with the teacher / of them practical skills training, hours			Independent work, hours	
			Lecture s	Practic al classes	Labora tory		
5th semester							
1	History of surgery and organization of surgical care 1. THE DEVELOPMENT OF SURGERY BEFORE THE 19TH CENTURY CENTURIES 2. THE DEVELOPMENT OF SURGERY IN THE 19TH AND 20TH CENTURIES 3. DEVELOPMENT OF SURGERY IN RUSSIA 4. ORGANIZATION SURGICAL CARE	ID-1 PC-4 ID-2 PC-4	2	6		8	Testing

2	Aspetika and antisepsis 1. SOURCES AND WAYS DISSEMINATION INFECTIONS IN SURGERY 2. ASEPTICS 3. ANISEPTICS	ID-1 PC-4 ID-2 PC-4	2	6		8	Testing
3	Pain relief 1. The main stages of development anesthesiology 2. local anesthesia 3. Narcosis	ID-1 PC-4 ID-2 PC-4	2	6		8	Testing
4	Emergency care for critical conditions of the body. 1. Terminal states 2. Cardiopulmonary resuscitation 3. SHOCK 4. DROWNING 5. ELECTRICAL INJURY, THERMAL AND SUNSTROKE	ID-1 PC-4 ID-2 PC-4	2	6/2		8	Testing
5	Bleeding 1. Classification of Bleeding 2. ACUTE BLEEDING 3. EXTERNAL AND INTERNAL BLEEDING 4. EFFECT OF BLEEDING ON organism. PROTECTIVE AND COMPENSATORY REACTIONS 5. STOPPING BLEEDING 6. SECONDARY BLEEDING	ID-1 PC-4 ID-2 PC-4	2	6/2		8	Testing
6	Blood transfusion 1. SOURCES OF BLOOD. 2. MECHANISM OF ACTION OF THE TRANSFUSED BLOOD. 3. BASIC HEMOTRANSFUSION MEDIUMS. 4. ANTIGENIC SYSTEMS OF BLOOD AND THEIR ROLE IN TRANSFUSIOLOGY. 5. METHODS OF BLOOD TRANSFUSION 6. BASIC METHODS OF BLOOD TRANSFUSION. 7. BASIC ACTIONS OF THE DOCTOR AND THEIR SEQUENCE PERFORMANCE OF BLOOD TRANSFUSIONS. 8. COMPLICATIONS OF BLOOD TRANSFUSIONS.	ID-1 PC-4 ID-2 PC-4	2	6/2		8	Testing
7	Blood-replacing fluids. 1. Classification of blood-replacing fluids. 2. MAIN STAGES AND SEQUENCE OF DOCTOR'S ACTIONS IN TRANSFECTION OF BLOOD-REPLACING FLUIDS.	ID-1 PC-4 ID-2 PC-4	2	6/2		8	Testing
8	Surgical operation 1. MAIN TYPES OF SURGICAL OPERATIONS 2. PREOPERATIVE period 3. POST-OPERATIVE PERIOD	ID-1 PC-4 ID-2 PC-4	2	6/2		8	Testing

9	Examination of a surgical patient 1. General clinical methods of examination 2. SPECIAL METHODS researches	ID-1 PC-4 ID-2 PC-4	2	6/2		8	Testing
	TOTAL for 5 semesters		18	54/12		72	
6th semester							
10	General issues of traumatology 1. FEATURES OF EXAMINATION OF TRAUMATOLOGICAL PATIENTS 2. EXAMINATION OF PATIENTS WITH SEVERE INJURIES IN EXTRAORDINARY SITUATIONS 3. DESMURGY 4. TRANSPORT IMOBILIZATION 5. CLOSED INJURIES OF FINE TISSUES 6. CLOSED TRAUMATIC INJURIES OF THE HEAD 7. CLOSED INJURIES OF THE BREAST AND ITS ORGANS 8. CLOSED INJURIES OF THE ABDOMEN 9. WOUNDS 10. BONE FRACTURES 11. DISLOCATIONS 12. THERMAL INJURIES	ID-1 PC-4 ID-2 PC-4	2	6/2		2	Testing
11	Surgical infection (purulent-inflammatory diseases) 1. CLASSIFICATION SURGICAL INFECTION 2. ETIOLOGY 3. PATHOGENESIS AND REACTION ORGANISM ON INFLAMATION 4. CLINICAL MANIFESTATIONS AND FEATURES EXAMINATION OF PATIENTS 5. GENERAL PRINCIPLES OF TREATMENT 6. INFLAMMATORY DISEASES OF THE SKIN AND SUBCUTANEOUS GELLY 7. INFLAMMATORY DISEASES OF THE FRACTURED CONNECTIVE TISSUE (CELLULAR SPACES) 8. PURULENT INFLAMMATION OF GLANDULAR ORGANS. 9. INFLAMMATORY DISEASES OF LYMPH NODES, LYMPHATIC AND CARDIAC VESSELS 10. PURULENT DISEASES CYSTS	ID-1 PC-4 ID-2 PC-4	2	6/2			Testing
12	Specific surgical infection 1. tuberculosis of bones and joints 2. tuberculous lymphadenitis 3. actinomycosis 4. anthrax	ID-1 PC-4 ID-2 PC-4	2	6/2		2	Testing
13	Insufficiency of blood and lymph circulation of the extremities. 1. The main variants of insufficiency of blood and lymph circulation	ID-1 PC-4 ID-2 PC-4	2	6/2			Testing

	2. Examination of patients with vascular diseases 3. arterial obstruction (acute and chronic arterial insufficiency) 4. insufficiency of venous circulation. 5. insufficiency of lymph circulation 6. necrosis, gangrene, trophic ulcers, fistulas, bedsores. 7. fistulas 8. bedsores.						
14	Tumors 1. Etiology and pathogenesis 2. Benign tumors 3. Malignant tumors 4. Precancerous diseases 5. General principles of tumor treatment	ID-1 PC-4 ID-2 PC-4	2	6		2	Testing
15	Parasitic surgical diseases . 1. ECHINOCOCCOSIS 2. ALVEOCOCCOSIS OF HUMAN 3. ASCARIDOSIS 4. OPISTORCHOSIS 5. AMEBIASIS 6. FILARIATOSIS 7. FASCIOLEOSIS	ID-1 PC-4 ID-2 PC-4	2	6/2			Testing
16	Malformations 1. Classification of Congenital Malformations 2. Malformations of the Skull and Brain 3. Malformations of the Spine and Spinal Cord 4. Malformations of the Face 5. Malformations of the Neck 6. Malformations of the Chest and Thoracic Organs 7. Congenital Heart Defects 8. Malformations of the Abdomen and Digestive Organs 9. Malformations of the Extremities	ID-1 PC-4 ID-2 PC-4	2	6		2	Testing
17	Plastic (restorative) surgery. 1. Types of plastic surgeries 2. Organ transplantation	ID-1 PC-4 ID-2 PC-4	2	6/2			Testing
	Exam					36	
	Total for the 6th semester		16	48/12		8	
	Total		34	102		80	

6. Assessment Tools Fund for the Discipline (Module)

The assessment tools fund (ATF) for the discipline General surgery is based on the list of competencies to be mastered, indicating the stages of their formation in the process of mastering

the discipline General surgery . The ATF provides an objective control over the achievement of the planned learning outcomes. The ATF includes:

- A description of indicators and criteria for evaluating competencies at various stages of their formation, a description of evaluation scales;
- Methodological materials determining the procedures for evaluating knowledge, skills, abilities and (or) work experience characterizing the stages of competency formation;
- Standard control tasks and other materials necessary for assessing knowledge, skills, and the level of mastery of the formed competencies in the process of mastering the discipline General surgery.

The ATF is an appendix to this discipline General surgery program.

7. Methodological Guidelines for Students on Mastering the Discipline

When starting work, each student must take into account the following provisions.

The discipline (module) is structured on a thematic principle; each topic represents a logically completed section.

The lecture material is dedicated to the consideration of key, basic provisions of the courses and the clarification of learning tasks assigned for the independent work of students.

Practical classes are conducted with the aim of consolidating the mastered information, acquiring skills for its application in solving practical problems in the relevant subject area.

Laboratory works are aimed at gaining practical experience in the relevant subject area.

The independent work of students is aimed at the independent study of additional material, preparation for practical and laboratory classes, as well as the execution of all types of independent work.

In order to successfully master the discipline, it is important to complete all types of independent work employing the recommended sources of information.

8. Educational, Methodological, and Informational Support for the Discipline

8.1. List of Main and Additional Literature Required for Mastering the Discipline General surgery/

8.1.1. List of Main Literature:

1. Mishinkin, P. N. General Surgery Electronic resource : Study Guide / P. N. Mishinkin, A. Yu. Neganova. - General Surgery, 2020-02-05. - Saratov : Nauchnaya kniga, 2019. - 159 p. - The book is in the premium version of IPR BOOKS EBS. - ISBN 978-5-9758-1758-7
2. General Surgery Electronic resource / Timerbulatov V. M., Garipov R. M., Sibaev V. M., Timerbulatov Sh. V., Semenov E. E., Timerbulatov M. V., Fedorov S. V. : textbook. - Ufa : BSMU, 2020. - 202 p

8.1.2. List of Additional Literature:

1. History of General Surgery in Personalities Electronic resource : Study Guide / V. K. Esipov [et al.] ; ed. by G. V. Savitsky. - Orenburg : Orenburg State Medical Academy, 2013. - 142 p. - The book is available in the premium version of IPR BOOKS. - ISBN 2227-8397
2. Krivenya, M. S. Surgery Electronic resource : Textbook / M. S. Krivenya. - Surgery, 2021-10-06. - Minsk : Vysheyshaya shkola, 2014. - 414 p. - The book is in the premium version of IPR BOOKS. - ISBN 978-985-06-2399-7
3. Nekhaev, A. N. Practical Skills in General Surgery Electronic resource : Textbook / A. N. Nekhaev, G. P. Rychagov. - Practical Skills in General surgery, 2020-02-24. - Minsk : Vysheyshaya shkola, 2012. - 525 p. - The book is in the premium version of the IPR BOOKS EBS. - ISBN 978-985-06-2087-3
4. General Surgery. Volume 2 Electronic resource : Textbook / G. P. Rychagov [et al.] ; ed.: G. P. Rychagov, P. V. Garelik. - General Surgery. Volume 2, 2020-02-24. - Minsk : Higher School, 2006. - 492 p. - The book is in premium versions of IPR BOOKS EBS. -

ISBN 978-985-06-1585-5

5. Rychagov, G. P. Surgical Diseases. Part 1. General Surgery

Electronic resource: Textbook / G. P. Rychagov, A. N. Nekhaev. - Surgical Diseases.

Part 1. General Surgery, 2020-02-24. - Minsk: Vysheyshaya Shkola, 2012. - 428 p. - The book is in the premium version of IPR BOOKS. - ISBN 978-985-06-1647-0.

8.2. List of Educational and Methodological Support for the Independent Work of Students in the Discipline General surgery.

1. Educational and methodological guide: Guidelines for students on the organization and conduct of independent work in the discipline "General Surgery". – Stavropol: NCFU, 2026.

2. Educational and methodological guide: Guidelines for performing practical exercises in the discipline "General Surgery". – Stavropol: NCFU, 2026.

8.3. List of Resources of the Information and Telecommunications Network Internet Required for Mastering the Discipline General surgery.

1 <http://rudocor.net/> - Medical Portal

2 <http://www.e-reading.club/> - Large Online Library

3 <http://www.spravocnikpolekarstvam.ru/> - Free Online Pharmacological Reference Book

4 <https://dic.academic.ru/> - Dictionaries and Encyclopedias

9. List of Information Technologies Employed through the Discipline General surgery, Including a List of Software and Information Reference Systems

When delivering lectures, computer equipment and demonstrations of multimedia presentation materials are used. In seminars and practical classes, students deliver presentations prepared by them during the hours of independent work.

Information Reference Systems:

Information-reference and information-legal systems used in the study of the discipline:

1.	1. Electronic library system "University Library Online" - www.biblioclub.ru (Contract No. 50-04/19 for the provision of information services dated 13.05.2019)
2.	Electronic library system "IPRbooks" (LICENSE AGREEMENT No. 5168/19 dated 13.05.2019 for providing access to the electronic library system IPRbooks. Organization: IPR Media LLC)
3.	"eLIBRARY.RU": [Scientific Electronic Library]. – URL: http://elibrary.ru
4.	Information and Legal Portal "Garant" - http://www.garant.ru/
5.	Reference and Legal System Russian Legislation and Judicial Practice in Free Access - http://www.pravo.ru/

Software:

1.	Alt Workstation 10
2.	Alt Workstation K
3.	Alt Server
4.	Office software package – P7-Office

10. Description of the Material and Technical Resources Required for the Educational Process for the Discipline General surgery.

Lecture classes	A classroom equipped with multimedia equipment and technical training facilities.
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Laboratory classes	
Practical classes	A classroom, equipped with multimedia equipment and technical training facilities.
Independent work	A room for the independent work of students, equipped with computer hardware with the capability to connect to the Internet network and provide access to the electronic information and educational environment of the university.
Practical training	Carried out in the structural subdivisions of the university and (or) in organizations engaged in activities matching the profile of the respective training program, including its structural subdivision.

11. Specific Features of Mastering the Discipline General surgery by Persons with Disabilities

Students with disabilities shall be provided with special textbooks, teaching aids, and didactic materials, special technical training facilities for collective and individual use, the services of an assistant (helper) providing the necessary technical assistance to the students, as well as the services of sign language interpreters and tactile sign language interpreters.

The mastery of the discipline (module) by students with disabilities may be organized jointly with other students, as well as in separate groups.

Mastering the discipline General surgery by students with disabilities is to be carried out taking into account the peculiarities of psychophysical development, individual capabilities, and health status.

In order to ensure the accessibility of higher education under the educational program for persons with disabilities, the following is provided during the mastery of the discipline (module):

- 1) for persons with visual impairments:
 - the presence of an assistant offering the student the necessary technical assistance, taking into account individual features (help taking the workplace, moving around, reading and formatting the task, including writing under dictation),
 - written tasks, as well as instructions on the procedure for their execution, are formatted in an enlarged font,
 - special textbooks, teaching aids, and didactic materials (having a large font or audio files), individual uniform lighting of at least 300 lux,
 if necessary, a magnifying device is provided to the student to complete the task;
- 2) for persons with hearing impairments:
 - the presence of an assistant providing the student with the necessary technical assistance, taking into account individual characteristics (helps to take a workplace, move around, read and format the task, including writing with dictation),
 - the availability of sound-amplifying equipment for collective use is ensured; if necessary, sound-amplifying equipment for individual use is provided to the student;
 - provision with proper sound means of reproducing information is ensured;
- 3) for persons with musculoskeletal disorders (including severe motor function impairments of the upper limbs or the absence of upper limbs):
 - written tasks are performed on a computer with specialized software or are dictated to an assistant;
 - at the request of the student, tasks may be performed verbally.

12. Specific Features of Implementing the Discipline with the Use of Distance Learning Technologies and E-Learning

Subject to Part 1 of Article 16 of the Federal Law of December 29, 2012, No. 273-FZ On Education in the Russian Federation, e-learning shall be viewed as the arrangement of educational activities employing information contained in databases and used in the implementation of educational programs, as well as information technologies, technical means, and information and telecommunication networks that ensure the processing and transmission of the specified information via communication lines, and the interaction of students and pedagogical workers.

Remote (distance) learning technologies are understood as educational technologies implemented mainly with the use of information and telecommunication networks during the indirect (at a distance) interaction of students and pedagogical workers.

The implementation of the discipline may be carried out with distance learning technologies and e-learning in full or in part. The components of the Educational And Methodological Complex (EMC) of the discipline (working program of the discipline, assessment and methodological materials, forms of attestation) implemented with the use of distance learning technologies and e-learning contain an indication of their use.

When arranging educational activities with distance learning technologies and e-learning, asynchronous and synchronous methods of interaction between participants in educational relations via the information and telecommunications network Internet may be offered.

When using distance learning technologies and e-learning, the schedule for the discipline shall indicate: methods of interaction among participants in educational relations via the information and telecommunications network Internet (VCC – videoconferencing, ET – electronic testing); links to the electronic information and educational environment of NCFU, to educational platforms and resources of other organizations to which open access is provided via the information and telecommunications network Internet; for synchronous learning – the time of online classes and instructors; for asynchronous learning – the authors of online courses.

When arranging intermediate attestation with distance learning technologies and e-learning, the Methodological Recommendations on the use of technical means ensuring the objective reliability of results when conducting intermediate and state final attestation for higher education educational programs – Bachelor's Degree programs, Specialist's Degree programs, and Master's Degree programs with distance learning technologies are used (Letter of the Ministry of Science and Higher Education of Russia dated December 7, 2020, # MN-19/1573-AN On sending methodological recommendations).

The implementation of the discipline with the use of e-learning and distance learning technologies is carried out using the electronic information and educational environment of NCFU, to which students are provided access via the information and telecommunications network Internet, or using the resources of other organizations, including platforms providing services for videoconferencing, online meetings, and distance learning (MTS-Link), as well as using the capabilities of social networks to carry out communication between students and instructors.

The educational and methodological support for a discipline shall be ensured with e-learning and distance learning technologies includes the working program presented in electronic form, educational and methodological manuals or a course of lectures, methodological guidelines for performing various types of educational activities of students provided for by the discipline, and other educational and methodological materials posted in the information and educational environment of NCFU.