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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 (MODULE)

«Faculty Surgery»

Name of the discipline (module)

- Specialty: 31.05.01 General Medicine
- Mode of training: Full-time
- Year of commencement of studies: 2026
- Delivered in Semester: 7,8

Developed by:

Associate Professor of the Department of Surgery,

Orthopedics and Traumatology,

Cand. Sci. (Med.), Associate Professor

position

S.I. Kubanov

full name

Stavropol 2026

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

- The aim of mastering the discipline is to develop in students theoretical knowledge and skills to diagnose surgical and urological diseases, determine methods of their treatment and prevention, and to form the foundations of clinical reasoning in the future specialist.
- Objectives of mastering the discipline:

Acquainting students with the principles of organization and operation of surgical and urological departments, prevention of infectious, parasitic, and non-infectious diseases in the surgical unit; with the etiology, pathogenesis, clinical signs, treatment, and prevention of surgical and urological diseases; with the principles of implementing measures for the prevention of nosocomial infections in healthcare facilities, creation of favorable conditions for patient stay and working conditions for medical personnel; principles of diagnosing surgical and urological diseases causing life-threatening complications and concomitant diseases; correct formulation of a preliminary diagnosis and referral of the patient for examination; diagnosis of acute pathology in surgical and urological patients; developing in students the ability to provide pre-medical care to patients with peacetime injuries and wounds; training students in providing first medical aid to patients with peacetime injuries and wounds; professional skills in the substantiated, comprehensive use of medical imaging techniques necessary for further education and professional activity in medical specialties.

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

The discipline «Faculty Surgery» belongs to the compulsory part of the curriculum.

3. List of Potential Learning Outcomes for the Discipline (Module), 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
UC-1. Able to carry out a critical analysis of problematic situations based on a systems approach and to develop a strategy for action.	IA-1 UC-1. Identifies a problematic situation, carries out its analysis and diagnosis based on a systems approach.	Upbringing of a comprehensively developed personality
PC-3. Able to identify the main pathological conditions, symptoms, syndromes of diseases, and nosological forms in a patient in accordance with the International Statistical Classification of Diseases and Related Health Problems, 10th Revision.	IA-1 PC-3. Able to construct an algorithm and select criteria for identifying the main pathological conditions, syndromes, and diseases in patients of various profiles in accordance with the International Statistical Classification of Diseases and Related Health Problems, 10th Revision (ICD-10). IA-2 PC-3. Identifies the main pathological symptoms and syndromes, and formulates a clinical diagnosis in	Formation of clinical reasoning. Acquisition of specialized medical skills and their application in practical healthcare.

	accordance with ICD-10.	
PC-6. Ready to determine the necessity of applying natural therapeutic factors, medicinal and non-pharmacological therapy, and other methods in patients requiring medical rehabilitation and sanatorium-resort treatment.	IA-2 PC-6. Determines medical indications for conducting medical rehabilitation measures, including when implementing an individual program of rehabilitation or habilitation for persons with disabilities, in accordance with the current procedures for providing medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care.	Acquisition of specialized medical skills and their application in practical healthcare.

4. Volume of the Academic Discipline (Module) and Control *

Volume of classes: Total: 7 ECTS credits, 252 academic hours.	Full-time type of study, in academic hours
Face-to-face work	144
Lectures / including practical training	36
Practical classes / including practical training	108/24
Independent work	81
Forms of control	
Examination	27

* The discipline (module) provides for the use of e-learning and remote learning technologies (unless otherwise set by the educational standard).

5. 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			Independent work, hours	Forms of current control of academic progress
			Contact work of students with the teacher / of them practical skills training, hours				
			Lectures	Practical classes	Laboratory work		
7th semester							

1	Introduction to Faculty Surgery. 1.Principles of Diagnosis of Surgical Pathology. Features of Examination of Emergency and Elective Surgical Patients. Methods of Establishing a Diagnosis. 2. Features of Medical Documentation Management. Main Regulatory Documents Defining the Work of a Surgeon.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	6/2		4	Testing
2	Diseases of the Vermiform Appendix. ???. Acute Appendicitis. Etiology. Pathogenesis. Classification. Clinical Features Depending on the Location of the Vermiform Appendix. ???. Surgical Tactics, Treatment. Complications of Acute Appendicitis. ???. Acute Appendicitis in Pregnant Women, Children, and the Elderly. 4. History of the Study of Acute Appendicitis.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	6/2		4	Testing
3	Diseases of the Pancreas. 1. Acute Pancreatitis. Etiology. Pathogenesis. Classification. Principles of Diagnosis and Treatment of Acute Pancreatitis Depending on the Stage of the Disease. Complications and Prognosis.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	6/2		4	Testing
4	Abdominal Injuries. ???. Open and Closed Injuries of the Abdominal Organs. Classification. Features of Diagnosis and First Aid at the Pre-Hospital Stage. 2. Syndrome of Hollow and Parenchymal Organ Injury. Principles of Diagnosis and Surgical Tactics in a Specialized Department.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	6/2		4	Testing
5	Diseases of the Esophagus. ???. Achalasia of the Cardia. Diverticula of the Esophagus. ???. Chemical Burns and Cicatricial Strictures of the Esophagus. Foreign Bodies of the Esophagus. Features of Diagnosis of Esophageal Tumors at the Pre-Hospital Stage and in the General Surgical Department. 3. Endoscopic Methods of Treatment of Stenosing Lesions of the Esophagus (Bougination, Balloon Dilation, Stenting).	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	6/2		4	Testing

6	Diseases of the Stomach and Duodenum. ???. Complicated Peptic Ulcer Disease of the Stomach and Duodenum (Perforation and Penetration). Clinical Picture. Diagnosis at the Pre-Hospital Stage and in the Surgical Department. Surgical Tactics for Perforated Ulcer and Ulcer Penetration. Complications. Prognosis. ???. Complicated Peptic Ulcer Disease of the Stomach and Duodenum (Stenosis, Bleeding, Malignization). Clinical Picture. Diagnosis at the Pre-Hospital Stage and in the Surgical Department. Surgical Tactics for Ulcer Bleeding. Features of Treatment of Ulcerative Stenosis. ???. Major Surgical Interventions on the Stomach and Duodenum (Historical Aspects). 4. Precancerous Diseases of the Stomach.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	6/2		4	Testing
7	Diseases of the Thyroid Gland. ???. Classification ???. Methods of Investigation ???. Endemic Goiter, Sporadic Goiter, Thyrotoxicosis ???. Etiopathogenesis. Clinical Picture, Differential Diagnosis 5. Treatment. Types of Surgical Treatment	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	6		4	Testing
8	Chest Trauma. ???. Closed and Open Chest Injuries (Stab and Gunshot Wounds). Clinical Picture, Diagnosis, First Aid at the Pre-Hospital Stage, Indications for Surgical Treatment. 2. Modern Endovideosurgical Methods of Diagnosis and Treatment of Chest Trauma.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	6/2		4	Testing

9	Diseases of the Lungs. Abscess and Gangrene of the Lung. 1. Causes of Development. Clinical Picture, Diagnosis. Principles of Treatment of Lung Abscess and Gangrene. 2. Acute Purulent Pleurisy. Clinical Picture, Diagnosis, Conservative and Surgical Treatment. 3. Pneumothorax. Concept, Classification. 4. Spontaneous Pneumothorax. Causes, Clinical Picture, Diagnosis, Treatment. 5. Bronchiectatic Disease. Concept, Classification, Clinical Picture, Principles of Treatment. 6. Hemothorax. Features of Development and Clinical Course. First Medical Aid, Treatment.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	6		4	Testing
	TOTAL in Semester		18	54/12		36	
8th semestr							
10	Diseases of the Intestine. 1. Intestinal Obstruction. Classification. Methods of Examination of Patients with Intestinal Obstruction. Principles of Treatment and Surgical Tactics for Various Types of Intestinal Obstruction.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	4	8/2		8	Testing
11	Diseases of the Colon. 1. Chronic Nonspecific Colitis. Crohn's Disease. Diverticula of the Colon. Ischemic Colitis. Features of Clinical Picture and Diagnosis at the Outpatient Stage and in the Surgical Department. Principles of Treatment.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	4	8/2		8	Testing
12	Diseases of the Rectum. 1. Hemorrhoids. Anal Fissures. Paraproctitis. Diagnosis and Treatment in Outpatient Settings. Methods of Surgical Treatment of Diseases of the Rectum. 2. Possibilities of Diagnosing Rectal Cancer at the Pre-Hospital Stage.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	8/2		8	Testing

13	Diseases of the Liver and Gallbladder. ??. Acute Cholecystitis. Calculous and Non-Calculous Cholecystitis. Pathogenesis. Classification. Clinical Manifestations of Acute Cholecystitis. Principles of Diagnosis and Treatment of Acute Cholecystitis. Complications of Acute Cholecystitis. 2. Gallstone Disease. Epidemiology. Etiopathogenesis. Obstructive Jaundice. Causes. Differential Diagnosis of Jaundice (Choledocholithiasis, Stricture of the Major Duodenal Papilla, Tumors of the Pancreatobiliary Ampulla, Chronic Pancreatitis, Focal Liver Diseases, Echinococcosis, Alveococcosis of the Liver). Principles of Diagnosis and Treatment of Obstructive Jaundice.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	10/ 2		8	Testing
14	Acute Disorders of the Mesenteric Circulation.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	10/ 2		6	Testing
15	Abdominal Hernias. ??. Principles of Surgical Treatment, Long-Term Results, Prevention of Specific Localizations of Hernias. ??. Classifications of Hernias, Clinical Picture and Diagnosis. Congenital Inguinal Hernias. Indications and Contraindications to Surgical Treatment. 3. Complications of Abdominal Hernias.	IA-1 UC-1 IA-2 PC-3 IA-2 PC-6	2	10/ 2		7	Testing
	Examination					27	
	TOTAL in Semester		18	54/ 12		45	
	TOTAL		36	108		81	

6. Assessment Tools Fund for the Discipline (Module)

The assessment tools fund (ATF) for the discipline (module) «Faculty Surgery» is based on the list of competencies to be mastered, indicating the stages of their formation in the process of mastering the discipline (module). 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 (module).

The ATF is an appendix to this discipline (module) 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 (Module)

8.1.1. List of Main Literature:

1. Begishev O. B. et al. Osnovy operativnoy khirurgii [Fundamentals of Operative Surgery] [Electronic resource]. Ed. by S. A. Simbirtsev. Saint Petersburg: Foliant, 2015. 728 p. ISBN 978-5-93929-256-6. Available in the premium version of IPR BOOKS (in Russian).
2. Protasov A. V. et al. Praktikum po operativnoy khirurgii. Laparoskopicheskaya khirurgiya [Practical Course in Operative Surgery. Laparoscopic Surgery] [Electronic resource]: uchebnoe posobie. Moscow: Rossiyskiy universitet druzhby narodov, 2013. 128 p. ISBN 978-5-209-05476-4. Available in the premium version of IPR BOOKS (in Russian).
3. Vasil'yev V. K., Tsybikzhapov A. D. Rabochaya tetrad' dlya laboratorno-prakticheskikh zanyatiy i samostoyatel'noy raboty po obshchey i chastnoy khirurgii [Workbook for Laboratory-Practical Classes and Independent Work in General and Special Surgery] [Electronic resource]. 2nd ed., stereotype. Saint Petersburg: Lan', 2020. 56 p. ISBN 978-5-8114-5277-4.
4. Chinikov M. A. et al. Izbrannye voprosy khirurgii [Selected Issues of Surgery] [Electronic resource]: uchebnoe posobie. Moscow: Rossiyskiy universitet druzhby narodov, 2013. 120 p. ISBN 978-5-209-04840-4. Available in the premium version of IPR BOOKS (in Russian).
5. Krivenya M. S. Khirurgiya [Surgery] [Electronic resource]: uchebnoe posobie. Minsk: Vysheyschaya shkola, 2014. 414 p. ISBN 978-985-06-2399-7. Available in the premium version of IPR BOOKS (in Russian).
6. Nekhayev A. N., Rychagov G. P. Prakticheskie navyki v obshchey khirurgii [Practical Skills in General Surgery] [Electronic resource]: uchebnoe posobie. Minsk: Vysheyschaya shkola, 2012. 525 p. ISBN 978-985-06-2087-3. Available in the premium version of IPR BOOKS (in Russian).
7. Veremey E. I. et al. Operativnaya khirurgiya s topograficheskoy anatomiey [Operative Surgery with Topographic Anatomy] [Electronic resource]. Ed. by E. I. Veremey, B. S. Semenov. Saint Petersburg: Kvadro, 2016. 560 p. ISBN 978-5-91258-233-2. Available in the premium version of IPR BOOKS (in Russian).
8. Rychagov G. P., Nekhayev A. N. Khirurgicheskie bolezni. Chast' 1. Obshchaya khirurgiya [Surgical Diseases. Part 1. General Surgery] [Electronic resource]: uchebnik. Minsk: Vysheyschaya shkola, 2012. 428 p. ISBN 978-985-06-1647-0. Available in the premium version of IPR BOOKS (in Russian).
9. Rychagov G. P., Nekhayev A. N. Khirurgicheskie bolezni. Chast' 2. Chastnaya khirurgiya [Surgical Diseases. Part 2. Special Surgery] [Electronic resource]: uchebnik. Minsk: Vysheyschaya shkola, 2012. 479 p. ISBN 978-985-06-2204-4. Available in the premium version of IPR BOOKS (in Russian).

8.2. List of Educational and Methodological Support for the Independent Work of Students in the Discipline (Module)

1. Study Guide: Methodological Instructions for Students on Organizing and Conducting Independent Work in the Discipline "Faculty Surgery". Stavropol: NCFU, 2023.
2. Study Guide: Methodological Instructions for Performing Laboratory Work in the Discipline "Faculty Surgery". Stavropol: NCFU, 2023.

8.3. List of Resources of the Information and Telecommunications Network **Internet** Required for Mastering the Discipline (Module)

1. <http://rudocor.net/> — Medical Portal
2. <http://www.e-reading.club/> — Large Online Library
3. <https://dic.academic.ru/> — Dictionaries and Encyclopedias
4. <https://roszdravnadzor.gov.ru/> — Federal Service for Surveillance in Healthcare (Roszdravnadzor)
5. <https://www.rmj.ru/> — Russian Medical Journal

9. List of Information Technologies Employed through the Discipline (Module), 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.	Electronic Library System "University Library Online" — www.biblioclub.ru (Contract No. 50-04/19 on the Provision of Information Services dated 13.05.2019)
2.	Electronic Library System "IPRbooks" (License Agreement No. 5168/19 dated 13.05.2019 for the provision of access to the electronic library system IPRbooks. Organization: IPR Media Company LLC)3.
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 (Module)

Lecture classes	A classroom equipped with multimedia equipment and technical training facilities.
Practical classes	"Simulation Center" for practicing skills in the practical training of students, a classroom equipped with equipment and technical teaching aids for 12 seats, a computer with the necessary set of licensed software. Mannequin simulator for practicing first aid skills for fractures; Mannequin simulator for practicing nursing

	skills; Mannequin simulator for practicing first aid skills for injuries; Mannequin simulator for practicing nursing skills; Mannequin for practicing auscultation skills of the heart and lungs; Arm trainer for practicing blood pressure and pulse measurement skills; Arm trainer for practicing arterial blood pressure measurement skills; Mannequin simulator for practicing percussion and puncture skills; Mannequin for practicing basic CPR skills (TORS); Mannequin for practicing cardiopulmonary resuscitation skills with a controller — TORS; Vest for auscultation of the heart, lungs, and abdominal cavity with a wireless control panel; Trainer simulator of an automated external defibrillator; Phonendoscope; Tonometer; Thermometer; Medical stadiometer; Electronic floor scales; Measuring tape; Skinfold caliper.
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.

11. Specific Features of Mastering the Discipline (Module) 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 (module) 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.