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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)

«Tactical Medicine»

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: 6

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)

- To develop in students a conscious and responsible attitude towards preserving and strengthening health based on the principles of a healthy lifestyle, and to acquire skills in recognizing emergency conditions and the ability to provide first aid.
- Objectives of mastering the discipline:
 - to develop students' skills in providing first aid and extended medical care to casualties at the pre-hospital stage during emergency situations in wartime and peacetime, as well as in participating in medical evacuation;
 - to cultivate the skills to implement professional, ethical, and deontological aspects of medical practice in communication with colleagues, nursing staff and junior personnel, the adult population, and adolescents when providing medical care;
 - to build an extensive and in-depth body of basic, fundamental medical knowledge that forms the professional competencies of a physician capable of successfully addressing professional tasks in the management of the health and sanitary consequences of emergency situations in peacetime and wartime;
 - to shape and enhance the professional training of a physician who possesses clinical reasoning, is well-versed in complex pathology, and has in-depth knowledge of related disciplines;
 - to prepare a specialist physician proficient in skills and general medical procedures for the provision of first aid, pre-medical care, and first medical aid;
 - to teach the provision of first aid to casualties in various emergency situations, and to build students' psychological resilience to the stress impact of factors arising from various emergency situations;
 - to introduce the rules of first aid provision to casualties in various emergency situations, the rules of carrying and transporting casualties from the affected areas and loading them onto transport, and the rules of personal and public hygiene.

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

The discipline «Tactical Medicine» 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-8. Able to create and maintain safe living conditions in everyday life and professional activities to preserve the natural environment and ensure the sustainable development of society, including in the event of a threat and the occurrence of emergency situations and military conflicts.	IA-1 UC-8. Is familiar with the general characteristics of ensuring safety and sustainable development in various spheres of life; with the classification of military-type emergency situations; and with the principles and methods of organizing the protection of the population from hazards arising in peacetime and during military operations. IA-2 UC-8.	Readiness to act in non-standard situations and to select methods of protection in emergency situations.

	Assesses the probability of potential danger arising in everyday life and professional activities and takes measures to prevent it. IA-3 UC-8. Uses basic methods of protection in the event of a threat and the occurrence of emergency situations and military conflicts in everyday life and professional activities.	
GPC-4. Able to use medical devices stipulated by the procedure for providing medical care, as well as to conduct patient examinations for the purpose of establishing a diagnosis.	IA-1 GPC-4. Applies medical technologies, medical devices, medicinal products, disinfectants, and their combinations in addressing professional tasks. IA-2 GPC-4. Applies diagnostic instrumental methods of examination for the purpose of establishing a diagnosis.	Formation of clinical reasoning. Acquisition of specialized medical skills and their application in practical healthcare.

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

Volume of classes: Total: 3 ECTS credits, 108 academic hours.	Full-time type of study, in academic hours
Face-to-face work	48
Lectures / including practical training	16
Practical classes / including practical training	32
Independent work	60
Forms of control	
Credit (Pass/Fail)	

** 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	Competencies and	Full-time training	Forms of current control of academic
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	content	indicators to be developed	Contact work of students with the teacher / of them practical skills training, hours			Independent work, hours	progress
			Lectures	Practical classes	Laboratory		
6rd semester							
1	Tactical Medicine. The Concept of Tactical Medicine, Goals and Objectives of the Tactical Medic, and Requirements for Them.	IA-1 UC-8 IA-2 UC-8 IA-3 UC-8 IA-1 GPC-4 IA-2 GPC-4	2	4		8	Interview (discussion)
2	Medical Support of Combat Operations. Medical Support of Troop Combat Operations. Actions of Units in a Combined Order.	IA-1 UC-8 IA-2 UC-8 IA-3 UC-8 IA-1 GPC-4 IA-2 GPC-4	2	4		8	Interview (discussion)
3	Individual Army Medical Kit: Contents and Application. Standard and Recommended Individual Army Medical Kits. Also, AI and AI-2 Kits. Desmurgy, Application of Primary Bandages and Pain Management in Field Conditions.	IA-1 UC-8 IA-2 UC-8 IA-3 UC-8 IA-1 GPC-4 IA-2 GPC-4	2	4		8	Interview (discussion)
4	Types of Bleeding and First Aid in Field Conditions. Causes of Bleeding: Wounds, Burns, Injuries, Radiation Sickness, Necrosis (Pressure Ulcers). Hemorrhage Control by Tourniquet Application According to the Rules.	IA-1 UC-8 IA-2 UC-8 IA-3 UC-8 IA-1 GPC-4 IA-2 GPC-4	2	4		8	Interview (discussion)
5	Types of Wounds Sustained During Combat Operations. Types of Wounds. First Aid for Various Types of Wounds.	IA-1 UC-8 IA-2 UC-8 IA-3 UC-8 IA-1 GPC-4 IA-2 GPC-4	2	4		8	Interview (discussion)

6	The Concept of Tactical Medicine Zones: Actions in the Red, Yellow, and Green Zones. Actions When Providing First Aid to a Casualty in the Red, Yellow, and Green Zones. Methods of Evacuation After Providing First Aid to a Casualty in the Red, Yellow, and Green Zones.	IA-1 UC-8 IA-2 UC-8 IA-3 UC-8 IA-1 GPC-4 IA-2 GPC-4	2	4	8	Interview (discussion)
7	First Aid to the Wounded During Combat Operations. Rules of First Aid for the Wounded. Psychological Assistance.	IA-1 UC-8 IA-2 UC-8 IA-3 UC-8 IA-1 GPC-4 IA-2 GPC-4	2	4	8	Interview (discussion)
8	Evacuation, Transportation, and Triage of the Wounded During Combat Operations. Types of Stretchers, Rules and Procedures for Carrying the Wounded. Documentation of Injuries and Interventions. Use of Improvised Means: Stretchers, Tourniquets, Splints.	IA-1 UC-8 IA-2 UC-8 IA-3 UC-8 IA-1 GPC-4 IA-2 GPC-4	2	4	8	Interview (discussion)
	TOTAL in Semester		16	32	60	
	TOTAL		16	32	60	

6. Assessment Tools Fund for the Discipline (Module)

The assessment tools fund (ATF) for the discipline (module) «Tactical Medicine» 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. Katulin A. N., Zaytsev D. V., Ashmarin D. V., Lupina D. V. Osnovy takticheskoy meditsiny [Fundamentals of Tactical Medicine]. Moscow: Tovarishestvo nauchnykh izdaniy KMK, 2018. 177 p.
2. Ar'yev T. Ya. Termicheskie porazheniya [Thermal Injuries]. Leningrad: Meditsina, 1966. 704 p.
3. Geli R. L., Spait D. U., Simon R. R. Neotlozhnaya ortopediya. Pozvonochnik [Emergency Orthopedics. The Spine]. Moscow, 1995.
4. Gurvich N. L. Fibrillyatsiya i defibrillyatsiya serdtsa [Fibrillation and Defibrillation of the Heart]. Moscow: Medgiz, 1957.
5. Zil'ber A. P. Meditsina kriticheskikh sostoyaniy. Kniga 1 [Critical Care Medicine. Book 1]. Petrozavodsk: Izdatel'stvo Petrozavodskogo universiteta, 1995. pp. 211–270.
6. Zil'ber A. P. Etika i zakon v MKS. Kniga 4 [Ethics and Law in Critical Care Medicine. Book 4]. Petrozavodsk: Izdatel'stvo Petrozavodskogo universiteta, 1998. pp. 127–140.
7. Malyshev V. D. (Ed.). Intensivnaya terapiya. Reanimatsiya. Pervaya pomoshch' [Intensive Care. Resuscitation. First Aid]: uchebnoe posobie. Moscow: Meditsina, 2000. 464 p.
8. Kaplan A. V. Povrezhdeniya kostey i sustavov [Injuries of Bones and Joints]. Moscow: Meditsina, 1979.
9. Kassil' V. L. Iskusstvennaya ventilyatsiya legkikh v intensivnoy terapii [Artificial Ventilation of the Lungs in Intensive Care]. Moscow: Meditsina, 1987. 256 p.
10. Klintsevich G. N. Porazheniya kholodom [Cold Injuries]. Leningrad: Meditsina, 1973. 216 p.
11. Kolesnikov Yu. P., Sviridov A. I., Dubrovin G. M., Kaplan A. V. Vyvihi i perelomy klyuchitsy [Dislocations and Fractures of the Clavicle]. Voronezh, 1992. 141 p.
12. Kotelnikov V. P. Otmorozheniya [Frostbite]. Moscow: Meditsina, 1988. 256 p.
13. Marini Dzhon Dzh., Uiler Artur P. Meditsina kriticheskikh sostoyaniy [Critical Care Medicine]: translation from English. Moscow: Meditsina, 2002. 992 p.
14. Chazov E. I. (Ed.). Neotlozhnye sostoyaniya i ekstrennaya meditsinskaya pomoshch' [Emergency Conditions and Emergency Medical Care]: spravochnik. Moscow: Meditsina, 1989. 640 p.
15. Groer K., Kavallaro D. Serdechno-legochnaya reanimatsiya. Karmannyi spravochnik [Cardiopulmonary Resuscitation. Pocket Reference]: translation from English. Moscow: Praktika, 1996. 128 p.
16. Sokolov V. A., Potapov V. I. Okazanie skoroy meditsinskoy pomoshchi postradavshim s sochetannoy i mnozhestvennoy travmoy na dogospital'nom etape [Provision of Emergency Medical Care to Victims with Combined and Multiple Trauma at the Pre-Hospital Stage]: metodicheskoe posobie. Moscow, 1997. 90 p.
17. Sumin S. A. Neotlozhnye sostoyaniya [Emergency Conditions]. 6th ed., revised and enlarged. Moscow: OOO "Meditsinskoe informatsionnoe agentstvo", 2006. 800 p.
18. Ogilvie C. (Ed.). Ekstrennaya pomoshch' v meditsinskoy praktike [Emergency Care in Medical Practice]: translation from English. 2nd ed. Moscow: Meditsina, 1987. pp. 135–170.

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

1. Artamonova L. L. Neotlozhnaya pomoshch' pri ostrykh sostoyaniyakh i travmakh [Emergency Care for Acute Conditions and Injuries]: uchebno-metodicheskoe posobie. Ministerstvo obrazovaniya RF. Tula, 2002.

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.	http://rudocor.net/ — Medical Portal
2.	https://dic.academic.ru/ — Dictionaries and Encyclopedias Software: 1.

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.