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MINISTRY OF SCIENCE AND HIGHER EDUCATION

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NORTH-CAUCASUS FEDERAL UNIVERSITY

APPROVED

Assoc. Prof. Kubanov S.I.

PhD in Medical Sciences

Dean

Faculty of Medicine and Biology

_____ of _____, 20 __

COURSE OUTLINE OF THE DISCIPLINE (MODULE)

Propaedeutics of internal diseases

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 5,6

Developed by:

G.S. Ivchenko,

Acting Head of the Department of Propaedeutics

of Internal Diseases

Stavropol 2026

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

- The objectives of the discipline are to provide students with systematic theoretical and applied knowledge, skills, and professional competencies in the methods of patient examination, the fundamentals of clinical thinking, medical ethics and deontology, as well as the skills necessary for further education and professional practice in the modern diagnosis of major internal diseases and the principles of patient examination.
- Tasks solved in the course of mastering the discipline program: - study of methods of direct examination of the patient (questioning, examination, palpation, percussion, auscultation, measurement of blood pressure, study of the properties of the arterial pulse, etc.); - study of the main clinical symptoms and syndromes of diseases of internal organs and the mechanisms of their occurrence; - study of the symptomatology of the most common diseases of internal organs, which occur in a typical classical form; - formation of ideas about the basic principles of the diagnostic process (the basics of clinical thinking); - development of skills, abilities and competencies necessary in the formulation and substantiation of a clinical diagnosis; - development of interdisciplinary thinking in students with the subsequent formation of the necessary volume of practical skills for independent work in professional activity; - study of some methods of laboratory and instrumental diagnostics of diseases of internal organs (general and biochemical blood tests, urine tests, pleural content tests, sputum tests, fecal tests, ECG, EchoCG, X-ray of the lungs and heart, spirometry, etc.); - formation of ideas about the basic principles of medical ethics and deontology.

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

The discipline Propaedeutics of internal diseases belongs to the part (compulsory part / part developed by the parties involved in academic relations).

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
UK-1. Capable of carrying out a critical analysis of problematic situations based on a systematic approach and developing a strategy for action	ID-1 UK-1 identifies a problematic situation, analyzes and diagnoses it based on a systematic approach; ID-2 UK-1 searches for, selects, and organizes information to determine alternative strategic solutions for a problematic situation; ID-3 UK-1 identifies and evaluates the risks of possible solutions to a problematic situation, and selects the optimal solution.	Fostering a well-rounded personality
UK-2. Capable of managing a project at all stages of its life cycle	ID-1 UK-2 formulates the project goal, defines a set of interrelated tasks that ensure its achievement, and determines the expected results of solving the	Acquisition of special medical skills and their application in practical healthcare

	tasks; ID-2 UK-2 develops an action plan for solving the project tasks, choosing the optimal way to solve them based on the current legal regulations and available resources and constraints; ID-3 UK-2 ensures that the project is completed in accordance with the established goals, deadlines, and costs, based on the current legal regulations, available resources, and constraints, including the use of digital tools.	
OPC-4. Capable of using medical devices in accordance with the procedure for providing medical care, as well as conducting patient examinations to establish a diagnosis	ID-1 OPC-4 Applies medical technologies, medical devices, medicines, disinfectants, and their combinations when solving professional tasks ID-2 OPC-4 Applies diagnostic instrumental methods of examination in order to establish a diagnosis	Formation of clinical thinking Acquiring special medical skills and applying them in practical healthcare
OPC-5. Capable of assessing morphofunctional, physiological conditions, and pathological processes in the human body to solve professional tasks	ID-1 OPC-5 Evaluates morphofunctional and physiological conditions and processes in the human body at the individual, group, and population levels to solve professional tasks ID-2 OPC-5 Identifies pathological conditions and processes in the human body to solve professional tasks	Formation of clinical thinking
OPC-6. Capable of organizing patient care, providing primary medical and sanitary assistance, and ensuring the organization of work and professional decision-making in emergency situations at the pre-hospital stage, in emergency situations, epidemics, and in areas of mass casualties	D-1 OPC-6 Capable of organizing patient care ID-2 OPC-6 Provides primary medical care ID-3 OPC-6 Capable of making professional decisions in emergency situations at the pre-hospital stage, in emergency situations, epidemics, and in areas of mass casualties	Acquisition of special medical skills and their application in practical healthcare
OPC-8. Capable of implementing and monitoring the effectiveness of patient medical rehabilitation, including the implementation of individual rehabilitation and habilitation programs for disabled people, and assessing the patient's ability to perform work	ID-1 OPC-8 Creates an individual rehabilitation care plan together with the patient / family ID-2 OPC-8 Monitors the effectiveness of the patient's medical rehabilitation, including the implementation of individual rehabilitation programs for the patient ID-3 OPC-8 Organizes a workspace and a safe hospital environment, and teaches the family how to adapt the living	Acquisition of special medical skills and their application in practical healthcare

	space to the needs of the patient and the disabled person	
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4. Volume of the Academic Discipline (Module) and Control *

Volume of classes: Total: 8 ECTS credits, 288 academic hours.	Full-time type of study, in academic hours
Face-to-face work	152
Lectures / including practical training	50
Practical classes / including practical training	102/24
Independent work	100
Forms of control	
Examination	36

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	Competenci es 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	
			Lectures	Practical classes	Laboratory work		
Semester 5							
1	Introduction. Subject and objectives of the propaedeutics of internal diseases. Clinical history of the disease. 1. The main objectives of the course of propaedeutics of internal diseases. 2. Methodology of diagnosis. Types of diagnosis. 3. Scheme of the history of the disease	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	6		9	Interview (discussion)

2	General (external) examination. 1. General condition, position of the patient, state of consciousness (changes in consciousness: quantitative and qualitative), facial expression and features, examination of the neck and thyroid gland, anthropometric data, calculation of the body mass index (Quetelet index), body build, constitution, examination of the skin, subcutaneous fat, detection of edema, examination (inspection, palpation) of lymph nodes, bones, muscles, joints. 2. Writing a fragment of the medical history.	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	6		9	<i>Interview (discussion)</i>
3	General issues of examination of patients with diseases of the respiratory system. Percussion and auscultation of the lungs in norm and pathology. 1. Percussion and auscultation of the lungs in norm. 2. Comparative percussion, determination of the nature of the percussion sound. 3. Topographic percussion. 4. Mastering the method of auscultation. 5. The concept of basic and additional respiratory sounds, the mechanism of their occurrence, diagnostic value. 6. Examination of sputum and fluid from serous cavities.	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	6/2		9	<i>Interview (discussion)</i>

4	General issues of examination of patients with diseases of the cardiovascular system. Percussion and auscultation of the heart in norm and pathology. 1. Examination of the pulse and measurement of blood pressure. 2. Percussion and auscultation of the heart in norm: the technique of determining the boundaries of relative and absolute dullness, the vascular bundle. 3. Auscultation of the heart: projections of the heart valves; points of auscultation of the heart, the technique of auscultation of the heart. 4. Heart murmurs, mechanism of occurrence, classification	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	6/2		9	<i>Interview (discussion)</i>
5	General issues of examination of patients with diseases of the digestive system. 1. Examination of patients with diseases of the digestive system: questioning (characteristic complaints, their pathogenesis). 2. Examination of the oral cavity, abdomen, percussion of the abdomen (determination of free fluid), palpation of the abdomen (superficial orienting and deep methodical sliding palpation of the stomach, pylorus, intestines, and pancreas according to Obraztsov and Strazhesko). 3. Examination of patients with diseases of the digestive system: characteristic complaints of patients with diseases of the liver and gallbladder. 4. Examination of the liver and spleen.	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	6		9	<i>Interview (discussion)</i>
6	General issues of examination of patients with diseases of the urinary system. 1. Examination of patients with diseases of the urinary system: characteristic complaints of patients and their pathogenesis. 2. Main renal syndromes. 3. Examination of the renal area. Palpation of the kidneys. 4. Methods of urine examination.	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	6/2		9	<i>Interview (discussion)</i>

7	Electrocardiography. Normal ECG. 1. Technique of ECG registration, ECG leads. 2. Genesis of ECG pips and intervals, their characteristics. 3. Plan of ECG interpretation. 4. Independent ECG interpretation.	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	6/2		9	<i>Interview (discussion)</i>
8	The main clinical syndromes in diseases of the respiratory system. 1. The main clinical syndromes in diseases of the respiratory system. 2. Syndrome of infiltration of the lung tissue, pneumonia. 4. Syndrome of a cavity in the lung, lung abscess, bronchiectasis. 5. Pulmonary emphysema, pleural syndrome, syndrome of accumulation of fluid in the pleural cavity, pneumothorax, respiratory failure	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	6/2		9	<i>Interview (discussion)</i>
9	Rheumatism. Acquired heart defects. Semiotics of endocarditis, myocarditis, and pericarditis. 1. Rheumatism (rheumatic fever). 2. Acute rheumatic fever. 3. Chronic rheumatic heart disease.	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	6/2		9	<i>Interview (discussion)</i>
	TOTAL in Semester 5	18	54/12			72	
Semester 6							
10	Atherosclerosis. IHD: angina pectoris, myocardial infarction. Heart failure. 1. Clinical picture, data from instrumental and laboratory methods of research.	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	4	4/2		4	<i>Interview (discussion)</i>
11	Atherosclerosis. IHD: angina pectoris, myocardial infarction. Heart failure. 1. Heart failure (acute and chronic, right- and left-ventricular, total).	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	4	4		4	<i>Interview (discussion)</i>

12	Atherosclerosis. IHD: angina pectoris, myocardial infarction. Heart failure. 1.Principles of emergency care during an attack of angina pectoris, pulmonary edema.	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	4	4/2		4	Interview (discussion)
13	Arterial Hypertensions. 1.Classification of arterial hypertension (AH).	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	4	4		2	Interview (discussion)
14	Arterial Hypertensions. 1.Modern ideas about the etiology and pathogenesis of hypertension.	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	4	4/2		2	Interview (discussion)
15	Arterial Hypertensions. 1.Clinic, Stages of the Disease. 2.Principles of Therapy and Prevention of AH. 3.Symptomatic Hypertensions	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	4		2	Interview (discussion)
16	The main clinical syndromes in diseases of the gastrointestinal tract, liver, and biliary tract. 1. Symptoms of gastritis, stomach ulcers, and duodenal ulcers	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	4/2		2	Interview (discussion)
17	The main clinical syndromes in diseases of the gastrointestinal tract, liver, and biliary tract. 1.Definition, prevalence, etiology, and pathogenesis.	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	4		2	Interview (discussion)

18	The main clinical syndromes in diseases of the gastrointestinal tract, liver, and biliary tract. 1. Diagnostics. 2. Laboratory and instrumental methods of research.	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	4/2		2	<i>Interview (discussion)</i>
19	The main clinical syndromes in diseases of the gastrointestinal tract, liver, and biliary tract. 1. Principles of therapy and prevention.	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	6		2	<i>Interview (discussion)</i>
20	Curation of a patient. 1. Curation of a patient in the therapeutic department of a hospital, followed by writing a medical history with the justification of the diagnosis and analysis of the pathogenesis of the identified symptoms	ID 1-3 UK-1, ID 1-3 UK-2, ID 1,2 OPC-4 ID 1,2 OPC-5, ID 1-3 OPC-6, ID 1,2 OPC-8	2	6/2		2	<i>Interview (discussion)</i>
	Exam					27	
	TOTAL in Semester 6		32	48/12		28	
	TOTAL		50	102/24		100	

6. Assessment Tools Fund for the Discipline (Module)

The assessment tools fund (ATF) for the discipline (module) Propaedeutics of internal diseases 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. Propaedeutics of Internal Diseases: Textbook / E. A. Dotsenko, I. I. Burakov, M. N. Antonovich [et al.] ; edited by E. A. Dotsenko, I. I. Burakov. — Minsk: Republican Institute of Professional Education (RIPO), 2020. — 288 p. — ISBN 978-985-7234-33-2. — Text: electronic // Digital Educational Resource IPR SMART : [website]. — URL: <https://www.iprbookshop.ru/100391.html>
2. Yakovleva, A. Yu. Propedeutics of Internal Diseases: Textbook / A. Yu. Yakovleva. — 2nd ed. — Saratov: Nauchnaya Kniga, 2019. — 159 p. — ISBN 978-5-9758-1811-9. — Text: electronic // Digital Educational Resource IPR SMART: [website]. — URL: <https://www.iprbookshop.ru/81079.html>

8.1.2. List of Additional Literature:

1. Arhipova, i.e. Propedeutics: uebnoe posobie / i.e. Arhipova, A. A. Arhipova. - Moscow : Научный консультант, 2019. - 92 с — - ISBN 978-5-907084-98-8.
2. A short guide to the practical way of life by propedevtike vnutrennih bolezneyi (část 1). 2nd ed.
3. A short guide to the practical way of life by propedevtike vnutrennih bolezneyi (honor 2). 2nd ed.

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

1. Educational and methodological guide: Guidelines for students on the organization and conduct of independent work in the discipline "Propaedeutics of Internal Diseases". – Stavropol: NCFU, 2023.
2. Educational and methodological guide: Guidelines for performing laboratory work in the discipline "Propaedeutics of Internal Diseases". – 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 <http://www.spravocnikpolekarstvam.ru/> - Free Online Pharmacological Handbook
- 4 <https://dic.academic.ru/> - Dictionaries and Encyclopedias

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 for the provision of information services dated May 13, 2019)
2.	Electronic library system "IPRbooks" (LICENSE AGREEMENT No. 5168/19 dated May 13, 2019 for providing access to the electronic library system IPRbooks. Organization: IP Ar Media Company, LLC)
3.	"ELIBRARY.RU ": [Scientific Electronic Library]. – URL: http://elibrary.ru
4.	Information and legal portal "Garant" - http://www.garant.ru / Legal Reference System Russian legislation and judicial practice in the public domain - http://www.pravo.ru/

Software:

1.	Alt Workstation 10
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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	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 (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.

