

№ ЛД-16 ИИ

Federal State Budgetary Educational Institution  
of higher education  
"NORTH OSSETIAN STATE MEDICAL ACADEMY"  
Ministry of Healthcare of the Russian Federation

I APPROVED

Rector of FSBEI HE NOSMA  
MOH Russia

"17" 04 2024

**DISCIPLINE WORK PROGRAM**

**Epidemiology**

main professional educational program of higher education - specialty program in specialty  
31.05.01 General Medicine,  
approved 17.04.2024.

Form of study \_\_\_\_\_ full-time \_\_\_\_\_

The period of development \_\_\_\_\_ 6years \_\_\_\_\_

Department \_\_\_\_\_ infectious diseases \_\_\_\_\_

Vladikavkaz, 2024

When developing the work program of the discipline, the basis is based on:

1. Federal State Educational Standard of Higher Education in specialty 31.05.01 General Medicine approved by the Ministry of Education and Science of the Russian Federation on February 9, 2016, № 95.

2. curriculum basic professional educational program of higher education in the specialty 31.05.01 General Medicine:

ЛД-16-05-19 ИИ

ЛД-16-06-20 ИИ, approved by the Scientific Council of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia on April 17, 2024, protocol № 6.

The work program of the discipline was approved at a meeting of the Department of Infectious Diseases dated March 25, 2024, protocol № 8.

The work program of the discipline was approved at a meeting of the central coordinating educational and methodological council on April 02, 2024, protocol № 4.

The work program of the discipline was approved by the Scientific Council of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia on April 17, 2024, protocol № 6.

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### **Content of the work program**

1. name of the discipline;
2. a list of planned learning outcomes in the discipline, correlated with the planned results of mastering the educational program;
3. an indication of the place of discipline in the structure of the educational program;
4. the amount of discipline in credit units, indicating the number of academic or astronomical hours allocated for contact work of students with a teacher (by type of training) and for independent work of students;
5. the content of the discipline, structured by topics (sections) with an indication of the number of academic or astronomical hours allocated for them and types of training;
6. a list of educational and methodological support for independent work of students in the discipline;
7. evaluation materials for intermediate certification of students in the discipline;
8. a list of basic and additional educational literature necessary for mastering the discipline;
9. a list of resources of the information and telecommunication network "Internet" (hereinafter - the "Internet" network), necessary for mastering the discipline;
10. methodological instructions for students on mastering the discipline;
11. a list of information technologies used in the implementation of the educational process in the discipline, including a list of software and information reference systems (if necessary);
12. description of the material and technical base necessary for the implementation of the educational process in the discipline.
13. Conducting educational activities using e-learning and distance learning technologies

**1. Name of the discipline:**

This work program regulates the study of the discipline "Epidemiology".

**2. List of planned learning outcomes for the discipline and the results of mastering the educational program**

p/no.	Competen cy number/in dex	Name of topics of practical classes	Development results		
			know	be able to	own
1	2	3	4	5	
1	GPC-6 PC-3	Introduction to epidemiology. The doctrine of the epidemic process.	Fundamentals of legislation on sanitary and epidemiological welfare of the population; official documents regulating anti-epidemic services for the population in case of infectious and parasitic diseases. The purpose and objectives of epidemiology, differences in the epidemiology of infectious and non-infectious diseases, causality in epidemiology. Concepts and definitions: method of epidemiological analysis, risk factors, risk groups, epidemiological diagnosis. Main characteristics of the epidemic process.	carry out anti-epidemic measures, protect the population in areas of particularly dangerous infections; assess the state of public health; evaluate the calculation of medical statistics indicators	Maintaining standard medical records and reports in medical organizations.
2	PC-3	Manifestations of the epidemic process. The doctrine of natural focality of infections. Epidemiology of non-communicable diseases.	Fundamentals of legislation on sanitary and epidemiological welfare of the population; official documents regulating anti-epidemic services for the	Organize and provide treatment, preventive and sanitary and anti-epidemic assistance to the population;	Assessments (epidemiological) of the state of public health

1	2	3	4	5	
			<p>population in case of infectious and parasitic diseases;</p> <p>The doctrine of the epidemic process;</p> <p>Epidemiological approach to the study of human diseases: epidemiology of infectious and parasitic diseases;</p> <p>Implementation of anti-epidemic measures, protection of the population in areas of particularly dangerous infections and natural disasters.</p>	<p>Carry out preventive, hygienic and anti-epidemic measures;</p> <p>Establish cause-and-effect relationships of changes in health from the influence of environmental factors.</p>	
3	PC-3 PC-13 PC-19	<p>Epidemic method. Epidemiological diagnostics. Fundamentals of evidence-based medicine in epidemiology.</p>	<p>Epidemiological approach to the study of human diseases: epidemiology of infectious and parasitic diseases;</p>	<p>Establish cause-and-effect relationships of changes in health from the influence of environmental factors.</p>	<p>Assessments (epidemiological) of the state of public health</p>
4	PC-3 PC-13 PC-19	<p>The source of infectious disease, preventive and anti-epidemic work. Epidemiological surveillance.</p>	<p>clinic of infectious diseases, including especially dangerous infections and anti-epidemic measures for these diseases</p> <p>-principles of providing first emergency aid to adults. Emergency clinic for emergencies. Know the indications for emergency and planned hospitalization.</p>	<p>carry out anti-epidemic measures, protect the population in areas of particularly dangerous infections</p> <p>-be able to diagnose and prescribe adequate treatment in first aid, in emergency situations and syndromes for the adult population.</p>	<p>skills to work with anti-plague suits of all types</p> <p>-skills in providing first aid in the event of emergency and life-threatening conditions, in areas of mass destruction, in carrying out hospitalization of patients on a planned and emergency basis</p>

1	2	3	4	5	
5	PC-3 PC-13 PC-19	Disinfection, disinsection, deratization, sterilization. Epidemiology of nosocomial infections	Types of disinfection. Disinfection methods, methods, basic disinfectants. Stages of processing of medical instruments and quality control of disinfection. Sterilization quality control. Modern means of disinfection; deratization, methods  Clinic of infectious diseases, and anti-epidemic measures for these diseases, Signs of formation and properties of hospital strains of pathogens; Manifestations of the epidemic process; - anti-epidemic regime of medical institutions	Use knowledge on the classification of infectious diseases when carrying out anti-epidemic measures; Plan and organize preventive and anti-epidemic measures for various nosological forms of cleaning and sterilization.  carry out anti-epidemic measures; assess the manifestations of the epidemic process of nosocomial infections in order to identify risk factors; differentiate cases of importation and nosocomial infection.	The basic principles of organizing a system of preventive and anti-epidemic measures. Methods of disinfection and sterilization.  Planning and implementation of preventive (anti-epidemic) measures
6	GPC-6 PC-3 PC-13 PC-19	Immunoprophylaxis of infectious diseases. National calendar of preventive vaccinations. Legal basis of immunoprophylaxis.	Legal basis in the field of immunoprophylaxis; goals of vaccination; conditions for storage and transportation of medical immunobiological preparations; indications and contraindications for vaccination; organization of vaccination work	Assess factors influencing the effectiveness and safety of immunoprophylaxis; Plan, organize and carry out immunoprophylaxis. Assess the quality and effectiveness of vaccination.	Assessments (epidemiological) of the state of public health; proper maintenance of medical records

1	2	3	4	5	
7	PC-3 PC-13 PK-19	Features of the epidemic process and anti-epidemic measures for respiratory tract infections (diphtheria, measles, influenza, meningococcal infection, chicken pox).	clinic of infectious diseases and anti-epidemic measures for these diseases -principles of providing first emergency aid to adults. Know the indications for emergency and planned hospitalization.	Plan and carry out preventive (anti-epidemic) measures; diagnose and prescribe adequate treatment in first aid, in emergency situations and syndromes for the adult population.	skills to provide first aid in the event of emergency and life-threatening conditions, for hospitalization of patients on a planned and emergency basis. Proper maintenance of medical records
8	PC-3 PC-13 PC-19	Features of the epidemic process and anti-epidemic measures for intestinal infections (shigellosis, typhoid fever, salmonellosis, viral hepatitis A).	clinic of intestinal infections, features of the epidemic process and anti-epidemic measures for these diseases; differential signs of outbreaks of intestinal infections of various origins.	Evaluate preventive and anti-epidemic measures. Conduct an epidemic investigation for infections with a fecal-oral transmission mechanism. Plan and carry out preventive (anti-epidemic) measures.	A plan of preventive measures for the most common diseases, taking into account risk factors, selection and prescription of medications
9	GPC-6 PK-3 PC-13 PK-19	Features of the epidemic process and anti-epidemic measures for blood infections with a transmissible transmission mechanism (malaria, typhus), infections of the external integument (anthrax, erysipelas, tetanus) and infections with a contact transmission mechanism (parenteral viral hepatitis, HIV infection).	Clinic of infectious diseases, including especially dangerous infections and anti-epidemic measures for these diseases -principles of providing first emergency aid to adults. Emergency clinic for emergencies. Know the indications for emergency and planned hospitalization.	carry out anti-epidemic measures, protect the population in areas of particularly dangerous infections -be able to diagnose and prescribe adequate treatment in first aid, in emergency situations and syndromes for the adult population.	skills to work with anti-plague suits of all types -skills in providing first aid in the event of emergency and life-threatening conditions, in areas of mass destruction, in carrying out hospitalization of patients on a planned and emergency basis
1	Pc-3 PC-13 PC-19	International Health Regulations. Anti-epidemic measures in foci of infections of international importance. Sanitary and anti-epidemic provision of the population in emergency situations.	clinic for especially dangerous infections and anti-epidemic measures for these diseases -principles of providing first aid to adults. Emer-	carry out anti-epidemic measures, protect the population in areas of particularly dangerous infections -be able to diagnose and prescribe adequate treat-	skills to work with anti-plague suits of all types -skills in providing first aid in the event of emergency and life-threatening conditions, in areas of

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	
			gency clinic for emergencies. Know the indications for emergency and planned hospitalization.	ment in first aid, in emergency situations and syndromes for the adult population.	mass destruction, in carrying out hospitalization of patients on a planned and emergency basis



### 3. Place of discipline in the structure of the educational program

The discipline "Epidemiology" is implemented in the basic part of the curriculum for training a specialist for students in the direction of training (specialty) 31.05.01. Internal medicine.

### 4. Scope of the discipline:

No · No · p/ p	Type of work	Total credit units	Total hours	Semesters	
				No. 11	
				hours	
1	2	3	4	5	
1	<b>Contact work of students with the teacher (total), including:</b>	2	72	72	
2	Lectures (L)	0.6	twenty	twenty	
3	Practical lessons (PZ)	1.4	52	52	
6	<b>Student independent work (IWS)</b>	1	36	36	
7	<b>Intermediate type appraisals</b>	credit (C)	-	-	Offset
		exam (E)	-	-	-
<b>eight</b>	<b>TOTAL:</b>	hours	108	108	108
	Total labor intensity	ZET	3	-	-

### 5. Content of the discipline

#### 5. Contents of the discipline

No./ p	Semester number	Name of the topic (section) of the discipline	Types of educational activities (in hours)					Forms of on- going pro- gress moni- toring
			L	LR	PZ	SRS	Total	
1	2	3	4	5	6	7	8	9
1	11	Introduction to epidemiology. The doctrine of the epidemic process. Manifestations of the epidemic process	2	-	5	3	10	Interview; Test tasks; Situational tasks
2	11	The doctrine of natural focality of infections. Epidemiology of non-communicable diseases.	2	-	6	3	11	Interview; Test tasks; Situational tasks
3	11	Epidemic method. Epidemiological diagnostics. Fundamentals of evidence-based medicine in epidemiology.		-	5	4	9	Interview; Test tasks; Situational tasks
4	11	The source of infectious disease, preventive and anti-epidemic work. Epidemiological surveillance.	2	-	5	4	11	Interview; Test tasks; Situational tasks

1	2	3	4	5	6	7	8	9
5	11	Disinfection, disinsection, deratization, sterilization. Epidemiology of nosocomial infections.	4	-	5	4	13	Interview; Test tasks; Situational tasks
6	11	Immunoprophylaxis of infectious diseases. National calendar of preventive vaccinations. Legal basis of immunoprophylaxis.	2	-	5	4	11	Interview; Test tasks; Situational tasks
7	11	Features of the epidemic process and anti-epidemic measures for respiratory tract infections (diphtheria, measles, influenza, meningococcal infection, chicken pox).	2	-	5	4	11	Interview; Test tasks; Situational tasks
8	11	Features of the epidemic process and anti-epidemic measures for intestinal infections (shigellosis, typhoid fever, salmonellosis, viral hepatitis A).	2	-	5	4	11	Interview; Test tasks; Situational tasks
9	11	Features of the epidemic process and anti-epidemic measures for blood infections with a transmissible transmission mechanism (malaria, typhus), infections of the external integument (anthrax, erysipelas, tetanus) and infections with a contact transmission mechanism (parenteral viral hepatitis, HIV infection).	2	-	5	3	10	Interview; Test tasks; Situational tasks
10	11	International Health Regulations. Anti-epidemic measures in foci of infections of international importance. Sanitary and anti-epidemic provision of the population in emergency situations.	2	-	6	3	11	Interview; Test tasks; Situational tasks
<b>TOTAL:</b>			<b>20</b>		<b>52</b>	<b>36</b>	<b>108</b>	<b>-</b>

## 6. The list of educational and methodological support for independent work of students in the discipline

No./n	Semester number	Name of educational and methodological development
1	2	3
1.	ten	Butaev T.M., Tsarikaeva M.S. EPIDEMIOLOGY. MILITARY EPIDEMIOLOGY, Vladikavkaz. - 2020. - 51 p.
2.	eleven	Otaraeva B.I., Butaev T.M. Botulism in the Republic of North Ossetia-Alania, Vladikavkaz. - 2020. -- 111 p.
3.	eleven	Butaev T.M., Kabolova Z.Z.

1	2	3
		EPIDEMIOLOGY AND PREVENTION OF HELMINTHOSIS (Methodological manual for students of medical-prophylactic, medical, dental and pediatric faculties), Vladikavkaz. - 2020.- 31 p.
4.	eleven	Butaev T.M., Khabieva B.A. EPIDEMIOLOGY AND PREVENTION OF ZONOSIS Methodical manual for students of medical-preventive, medical and pediatric faculties; North Ossetian State Medical Academy. - Vladikavkaz, 2020 .-- 45 p.
5.	eleven	Butaev T.M., Khabieva B.A. Anti-epidemic support of the population in emergency zones; North Ossetian State Medical Academy. - Vladikavkaz, 2020 .-- 26 p.
6.	eleven	Butaev T.M., Khabieva B.A. Prevention of nosocomial infections: textbook; North Ossetian State Medical Academy. - Vladikavkaz, 2020 .-- 91 p.
7.	eleven	Butaev T.M. THE MAIN LEGAL DOCUMENTS OF Rospotrebnadzor REGULATING THE ACTIVITIES OF THE SPECIALISTS; North Ossetian State Medical Academy. - Vladikavkaz, 2020 .-- 19 p.
8.	eleven	Butaev T.M. EPIDEMIOLOGY AND HYGIENE OF EMERGENCY SITUATIONS; North Ossetian State Medical Academy. - Vladikavkaz, 2020 .-- 20 p.
9.	eleven	Butaev T.M., Kabolova Z.Z. EPIDEMIOLOGY AND PREVENTION OF ROTAVIRAL INFECTION; North Ossetian State Medical Academy. - Vladikavkaz, 2020 .-- 19 p.
10.	eleven	Kabolova Z.Z., Butaev T.M. RESPIRATORY INFECTIONS (ASPIRATION ANTHROPONOSIS): EPIDEMIOLOGY AND PREVENTION; North Ossetian State Medical Academy. - Vladikavkaz, 2020 .-- 17 p.
11.	eleven	Butaev T.M., Tsirikhova A.S. Food poisoning and their prevention; North Ossetian State Medical Academy. - Vladikavkaz, 2020 .-- 37 p.
12.	eleven	Butaev T.M. Epidemiological studies. - 2020 .-- 25 p.
13.	eleven	Butaev T.M. Disinfection, sterilization, disinsection, deratization. - 2020 .-- 134 p.
14.	eleven	Butaev T.M., Tsarikaeva M.S. Hospital-acquired infections. - 2020 .-- 21 p.
15.	eleven	Butaev T.M., Tsirikhova A.S. Methods for assessing the reliability of the results of statistical research. - 2020 .-- 15 p.
16.	eleven	Butaev T.M. Epidemic process. Methodical manual for students of medical-prophylactic, medical and pediatric faculties - 2020. - 24 p.
17.	eleven	Butaev T.M., Khabieva B.A. METHODOLOGICAL GUIDE on the discipline "EPIDEMIOLOGY" for extracurricular independent work of students of medical, pediatric and dental faculties; North Ossetian State Medical Academy. - Vladikavkaz, 2020 .-- 26 p.
18.	eleven	Otarava B.I. Epidemiological process. An epidemic outbreak. Methodical manual for students of medical, pediatric, dental faculties. – Vladikavkaz, 2023.-27c.
19.	eleven	Otarava B.I. Epidemiology and prevention of intestinal infections. Methodical manual for students of medical, pediatric, dental faculties. – Vladikavkaz, 2023.-26c.
20.	eleven	Otarava B.I. Epidemiology and prevention of diphtheria. Methodical manual for students of medical, pediatric, dental faculties. – Vladikavkaz, 2023.-26c.

1	2	3
21.	eleven	Otaraeva B.I. Epidemiology and prevention of zoonoses. Methodical manual for students of medical, pediatric, dental faculties. – Vladikavkaz, 2023.-22с.
22.	eleven	Otaraeva B.I. Immunoprophylaxis of infectious diseases. Methodical manual for students of medical, pediatric, dental faculties. – Vladikavkaz, 2023.-20с.
23.	eleven	Otaraeva B.I. Disinfection. Disinsection. Deratization. Methodical manual for students of medical, pediatric, dental faculties. – Vladikavkaz, 2023.-20с

### 7. Evaluation materials for intermediate certification of students in the discipline

No./n	List of competencies	No. semester	Indicator (s) evaluating	Evaluation criterion (s)	Grading scale	Name EM
1.	JPC-6 PC-3 PC-13 PC-19	eleven	See training quality control standard, approved. By order of the Federal State Budgetary Educational Institution of Higher Education of the SOGMA of the Ministry of Health of Russia dated 10.07.2018 No. 264 / o	See training quality control standard, approved. By order of the Federal State Budgetary Educational Institution of Higher Education of the SOGMA of the Ministry of Health of Russia dated 10.07.2018 No. 264 / o	See training quality control standard, approved. By order of the Federal State Budgetary Educational Institution of Higher Education of the SOGMA of the Ministry of Health of Russia dated 10.07.2018 No. 264 / o	Tickets for offset; situational tasks ; Test tasks

### 8. The list of basic and additional educational literature necessary for mastering the discipline

п/№	Наименование	Автор (ы)	Год, место издания	Кол-во экземпляров		Наименование ЭБС/ссылка ЭБС
				в библиотеке	на кафедре	
1	2	3	4	5	6	7
<b>Основная литература</b>						
1.	Эпидемиология: учебник	Зуева Л.П.	СПб.: Фолиант, 2006	99		
2.	Инфекционные болезни и эпидемиология: учебник	В.И. Покровский и др.	М.: ГЭОТАР-Медиа, 2008, 2013, 2016	98 20		«Консультант студента» <a href="http://www.studmedlib.ru/book/ISBN9785970425787.html">http://www.studmedlib.ru/book/ISBN9785970425787.html</a>
3.	Руководство к практическим занятиям по	ред. В.И. Покровский	М.: ГЭОТАР-Медиа, 2005, 2007	26		«Консультант студента»

	эпидемиологии инфекционных болезней					<a href="http://www.studmedlib.ru/book/ISBN5970400386.html">http://www.studmedlib.ru/book/ISBN5970400386.html</a>
<b>Дополнительная литература</b>						
1.	Военная гигиена и эпидемиология : учеб. пособие	Беляков В. Д., Жук Е.Г.	М. : Медицина, 1988	95		
2.	Санитарно- эпидемиологический надзор : учеб. пособие для врачей	Шапошников А. А., Бутаев Т. М., Лукичева Т. А.	М. : Гигиена, 2010	9		
3.	Эпидемический процесс : метод. пособие	Т.М. Бутаев и др.	Владикавказ, 2012	10		
4.	Эпидемиология: учеб. пособие	Власов В.В.	М.: ГЭОТАР- Медиа, 2006	18		«Консультант студента» <a href="http://www.studmedlib.ru/book/ISBN5970402656.html">http://www.studmedlib.ru/book/ISBN5970402656.html</a>
5.	Внутрибольничные инфекции: метод. пособие для студентов 5 курса медико- профилактического, лечебного и педиатрического факультетов-	сост.: Т. М. Бутаев, М. С. Царикаева	Владикавказ, 2012			ЭБ СОГМА

### **9. The list of resources of the information and telecommunication network "Internet" necessary for mastering the discipline**

1. <https://www.rosminzdrav.ru> -official website of the Ministry of Health of the Russian Federation. Contains a database of regulatory documents, search engines Garant, Consultant.
2. <http://www.elibrary.ru> -scientific electronic library, search is carried out by the thematic section, the name of the journal, the author. Contains a catalog of Russian-language and foreign publications. Sometimes he runs full-text access promotions. Registration required.
3. <http://medinfo.ru> - Medinfo.ru is created as an information and reference resource for everyone who is interested in medicine and cares about their health. On the site you will find expert advice on various sections of medicine, orders of the Ministry of Health of the Russian Federation, Healthcare of the Russian Federation, International documents, Environmental legislation of the Russian Federation and the constituent entities of the Russian Federation.
4. <http://www.studmedlib.ru>/Electronic library of a medical university "Student advisor".
5. <http://www.rospotrebnadzor.ru/>ruOfficial site of the Office of the Federal Service for Supervision of Consumer Rights Protection and Human Wellbeing of the Russian Federation.

### 10. Methodical instructions for students on mastering the discipline:

Training consists of classroom lessons (72 hours), including a lecture course and practical exercises, and independent work (36 hours). The main study time is allocated for practical work.

Practical exercises are conducted in the form of an interview, and the use of visual aids, solving situational problems, answering test tasks.

In accordance with the requirements of the Federal State Educational Standard of Higher Education, active and interactive forms of conducting classes are widely used in the educational process.

Work with educational literature is considered as a type of educational work in the discipline "Epidemiology" of organizations and is performed within the hours allotted for its study (in the CDS section).

Each student is provided with access to the library funds of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia and the department.

During the study of the academic discipline, students independently disassemble situational tasks, take measurements and draw up research protocols.

Independent work of students implies extracurricular training and includes the creation of a portfolio, presentations, tables, slides, abstracts on the topics studied.

The student's work in a group forms a sense of teamwork and sociability.

The initial level of students' knowledge is determined by testing, the current control of mastering the subject is determined by oral questioning during classes, during clinical analyzes, when solving typical situational tasks and answering test tasks.

At the end of the study of the discipline (module), an intermediate control of knowledge is carried out using test control, testing of practical skills and solving situational problems.

### 11. The list of information technologies used in the implementation of the educational process in the discipline

Educational technologies used (active, interactive)	List of software securing
<i>1</i>	<i>2</i>
Multimedia lecture Traditional Lecture	Microsoft Office PowerPoint;
Practical lesson Round table discussion Solving situational tasks	Microsoft Office PowerPoint; Internet Explorer
Educational research work Writing summaries	Information and legal system "Consultant" Microsoft Office PowerPoint; Internet Explorer

### 12. Description of the material and technical base necessary for the implementation of the educational process in the discipline

When implementing an educational program for studying the discipline "Epidemiology":

- multimedia complex (laptop, projector, screen);
- Personal Computer;
- sets of slides, tables / multimedia visual materials for various sections of the discipline;
- situational tasks;
- boards.

When implementing an educational program for studying the discipline "Epidemiology", the following are used:

- study rooms for the work of students of the North Ossetian State Medical Academy;
- the material and technical fund has auditoriums for classroom lessons.
- lectures are provided with a projector, a laptop, a screen for demonstrating multimedia presentations developed in the PowerPoint program.
- Various equipment is used for classroom training.

### **13. Conducting educational activities using e-learning and distance learning technologies**

In the context of the introduction of restrictive measures (quarantine) associated with an unfavorable epidemiological situation, the threat of the spread of a new coronavirus infection and other force majeure events that do not allow full-time training, it is possible to study this discipline or part of it using e-learning and distance educational technologies.

Teaching the discipline in the above situations will be carried out through the development of an electronic course with access to video lectures and interactive course materials: presentations, articles, additional materials, tests and various tasks. When conducting training sessions, monitoring progress, as well as intermediate certification of students, platforms of the electronic information and educational environment of the academy and / or other e-learning systems recommended for use in the academy, such as Moodle, Zoom, Webinar, etc., can be used.

Lectures can be presented in the form of audio, video, "live lectures", etc.

Conducting seminars and practical classes is possible on-line both in synchronous and asynchronous modes. Seminars can be held in the form of web conferences.