

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

APPROVED



Rector of FSBEI HE NOSMA

MOH RUSSIA

O.V. Remizov

"24" May 2023

**WORKING PROGRAM OF THE DISCIPLINE
"DENTISTRY: IMPLANTOLOGY AND RECONSTRUCTIVE SURGERY
OF THE ORAL CAVITY. TRAINING SIMULATION COURSE IN
SURGICAL DENTISTRY "**

the main professional educational program of higher education -
specialty programs in the specialty 31.05.03 Dentistry,
event 05/24/2023

Form of study full-time

The term of development of OPOP in 5 years
(standard training period)

Department _____ of Dentistry No. 2

When developing the work program, the disciplines are based on:

1. Federal State Educational Standard for the specialty 31.05.03 Dentistry, approved by the Ministry of Education and Science of the Russian Federation on 12.08.2020, No. 984
2. The curriculum of the OPOP in the specialty 31.05.03 Dentistry

СТОМ -21-01-21ИИ

СТОМ-21-02-22 ИИ

СТОМ-21-03-23 ИИ, approved by the Academic Council of the Federal State Budgetary Educational Institution of the Ministry of Health on May 24, 2023, Protocol No. 6

The working program of the discipline was approved at the meeting of the Department of Dentistry No. 2 dated May 18, 2023, Protocol No. 1

The working program of the discipline was approved at the meeting of the central coordinating educational and Methodological Council on May 23, 2023, Protocol No. 4

The working program of the discipline was approved by the Academic Council of the Federal State Budgetary Educational Institution of the Ministry of Health of the Russian Federation on May 24, 2023, Protocol No. 6

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CONTENT OF THE WORK PROGRAM

1. name of the discipline;
2. a list of planned results of training in the discipline, correlated with the planned results of mastering the educational program;
3. indication of the place of the discipline in the structure of the educational program;
4. the volume of the discipline in credit units with an indication of the number of academic or astronomical hours allocated for contact work of students with the teacher (by type of training sessions) and for independent work of students;
5. the content of the discipline is structured according to topics (sections) with an indication of the number of academic or astronomical hours allocated to them and the types of training sessions.
6. the list of educational and methodological support for independent work of students in the discipline;
7. fund of assessment funds for conducting intermediate certification of students in the discipline;
8. a list of basic and additional educational literature required for mastering the discipline;
9. the list of resources of the information and telecommunication network "Internet", necessary for mastering the discipline;
10. methodological guidelines for mastering the discipline for students;
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

2. The list of planned results of training in the discipline and the results of mastering the educational program

№	a Number / index of competence	Content of the competence (or part thereof)	Topic of the lesson (section)	Indicators of achievement of competencies	Results of mastering		
					know	be able	to master
1	2	3	4	5	6	7	8
1	US-1	Is able to carry out critical analysis of problem situations on the basis of a systematic approach, to develop a strategy	The history of formation, the current state and prospects for the development of dental (dental) implantology. Possibilities of rehabilitation of patients with dental implants	ID-1Analyzes the problem situation and decomposes it into separate tasks ID-2Develops a strategy for solving problems ID-3Generates possible solutions to problems	- methods of abstract thinking in establishing the truth, methods of scientific research by mental dismemberment of the object (analysis) and by studying the object in its integrity, the unity of its parts (synthesis);	-use the methods of abstract thinking, analysis and synthesis, analyze alternative solutions to research problems and evaluate the effectiveness of the implementation of these options	- skills of presenting an independent point of view, analysis and logical thinking, public speech, moral and ethical argumentation, conducting discussions and round tables;
2	US-6	Is able to identify and implement the priorities of their own activities and ways to improve them on the basis of self-esteem and education throughout life		ID-1 Evaluates its resources and their limits (personal, situational, temporary), optimally uses them for the successful completion of the assigned task ID-2Determines the priorities of personal growth and ways to improve their own activities on the basis of self-esteem	- potential strengths and weaknesses of the individual; - effective ways of self-learning; methods of effective time planning; -major time absorbers	- draw up long-term and short-term plans; - organize your time; - form a portfolio; - plan your life for the period of study in an educational organization	- methods of analyzing the meaning of life problems and setting priorities; - planning your professional trajectory

3	OPK-1	Is able to implement moral and legal norms, ethical and deontological principles in professional activities	Examination of a dental patient iatrogenium in dental practice. Ergonomics and deontological principles in the treatment of patients with dental diseases	ID-1 Observes moral and legal norms in professional activities. ID-2 Is able to assess the social and personal characteristics of the patient and the degree of their influence on the course of the disease ID-3 Presents professional information in the process of intercultural interaction, observing the principles of ethics and deontology	- professional ethics and deontology of medical activity; - the role of informed consent	- to communicate with patients, colleagues; - to work in a team in the diagnosis and treatment of a patient with dental diseases	- skills of communicative communication with colleagues and patients
4	OPK-2	Is able to analyze the results of its own activities to prevent professional errors		ID-1 is able to analyze errors in the diagnosis and treatment of patients with dental diseases ID-2 is able to prevent and eliminate complications arising in the treatment of patients with dental diseases	- the causes of complications in surgical practice in the treatment of a patient with full or partial adentia, and ways to prevent them; errors that occur during the treatment of a patient with full or partial adentia, methods of their prevention and elimination	- plan the treatment of a patient with full or partial adentia on implants; - identify, eliminate and take measures to prevent complications during the implantation operation	- methods of examination of patients of a patient with full or partial adentia;

5	OPK-5	Is able to examine the patient in order to establish a diagnosis when solving professional tasks.	The main and additional methods of examination of children in the clinic of surgical dentistry. The phenomenon of osseointegration. Prerequisites and factors affecting the interaction of the implant with bone tissue. Indications and contraindications of dental rehabilitation with dental implants	ID-1 Uses the algorithm of clinical, laboratory and functional diagnostics in solving professional problems. ID-2 Correctly interprets the results of the main and additional methods of examination ID-3 Uses modern classifications to make a definitive diagnosis	- methods of collecting information from dental patients - diagnostic tools and methods for diagnosing dental diseases; - current clinical guidelines in dentistry and the procedure for providing medical care to patients with dental diseases; - clinical and functional evaluation of the tissues of the prosthetic bed	- analyze and interpret the information received from patients - conduct examinations of dental patients - interpret the results of instrumental, laboratory examination of patients	- skills in obtaining information from dental patients with major dental diseases requiring orthopedic treatment. - skills of initial examination in accordance with the current methodology - skills of diagnosis of the algorithm for making a detailed clinical diagnosis of patients of different age groups with diseases of the dentition system - skills of re-examination in accordance with the current methodology
6	OPK-6	Is able to prescribe, monitor the effectiveness and safety of non-drug and drug treatment in solving professional problems	Diagnostics and planning of implantation, instruments, medical perioperative support	ID-1 Applies clinical guidelines (treatment protocols) on the provision of medical care ID-2 Takes into account the clinical and pharmacological characteristics of the main groups of drugs when choosing specific drugs in the postoperative period ID-3 Carries out the correct choice of drugs for medical support of the operation	- standards of medical care for diseases - modern methods of dental implantation surgery - the mechanism of action of the main groups of drugs; the main properties and characteristics of modern drugs used to accompany the operation	- to use the necessary medical equipment - prescribe drug and non-drug therapy, taking into account the age and concomitant diseases of the patient - to analyze the effect of drugs on the totality of their pharmacological effects on the body - evaluate the effectiveness and safety of drug and non-drug methods of treatment	skills in prescribing drug and non-drug therapy, taking into account the clinical picture of diseases - skills in providing medical care in emergency conditions - skills in assessing the effectiveness and safety of drug therapy with skills in assessing the effectiveness and safety of non-drug

							treatments
7	OPK-13	Is able to solve standard tasks of professional activity using information, bibliographic resources, medical and biological terminology, information and communication technologies, taking into account the basic requirements of information security	Application of biocomposition materials in dental implantology and reconstructive surgery of the oral cavity	ID-1 Uses modern information and communication tools and technologies in professional activities. ID-2 Complies with the rules of information security in professional activities.	- the composition and purpose of the main elements of a personal computer, their characteristics; - software concepts and classification - the basics of probability theory and mathematical statistics;	- use educational, scientific, popular science literature, the Internet for professional activities; - to carry out statistical processing of experimental data;	- basic technologies for information conversion: text, table editors; - Internet work techniques for professional activities; medical-functional conceptual apparatus; - methods of processing textual and graphic information
8	PC-1	Examination of the patient in order to establish a diagnosis	Methods of examination of a dental patient: basic, (questioning, examination) additional (computer topography, radioisotopic, radiological, functional studies), laboratory methods, special. Medical record of the dental patient, rules of filling. Sections of the medical record.	ID-1 _{A/01.7} Correctly interprets the results of collecting information from patients ID-2 _{A/01.7} Correctly interprets the data of instrumental, laboratory and functional studies ID-1 _{A/01.7} Takes into account the data of patient consultations by specialist doctors ID-1 _{A/01.7} Establishes the correct final diagnosis of the accepted modern international classification of diseases	- Topographic anatomy of the head, maxillofacial region, features of blood supply, innervation, musculature, lymphatic system, structure of teeth, periodontal, oral mucosa, -age-related changes in the maxillofacial region, features of the impact on it of the external and internal environment - special and additional research methods for differential diagnosis of dental diseases;	- substantiate the need and scope of instrumental and laboratory studies; - justify the need and scope of additional examinations of patients (including radiographs, teloradiograms, radiovisiograms, orthopantomograms, tomograms (on film and digital media)) - conduct physical studies and interpret their results; - conduct a general clinical examination; - justify the need to refer patients for	- skills in collecting complaints, anamnesis of the disease, anamnesis of life in dental patients; - skills of examination, palpation, ; skills in reading the results of additional laboratory research methods

					-medical indications and contraindications to the use of X-ray and other methods of additional examination;	consultation to specialist doctors	
9	PC-2	Prescription, control of efficacy and safety of non-drug and drug treatment	Surgical techniques of dental implantation	<p>ID-1PK-2 Prescribes drug therapy for diseases in accordance with the available medical indications, taking into account the pharmacodynamics and pharmacokinetics of drugs</p> <p>ID-2PK-2 Prescribes non-drug therapy in accordance with medical indications</p> <p>ID-3PK-2Evaluates the efficacy and safety of medical treatments</p> <p>ID-4PK-2Evaluates the efficacy and safety of non-drug treatments</p> <p>ID-5PK-2Analyzes the effect of drugs on the aggregate of pharmacological effects</p> <p>ID-6PK-2Analyzes the effect of non-drug methods of treatment by a combination of properties</p> <p>ID-7PK-2Makes prescription prescriptions of drugs, write prescriptions for diseases, pathological processes and conditions</p> <p>ID-8PK-2Uses medicines, medical devices (including dental materials, instruments)</p> <p>ID-10PK-2 Determines the</p>	<p>-Groups of drugs, their pharmacokinetics, pharmacodynamics, compatibility of drugs</p> <p>- clinical picture,</p> <p>- the main methods of treatment</p> <p>- the principles of the device and rules of operation of modern medical devices and equipment</p> <p>- standards of medical care for diseases of the dentition</p>	<p>-Prescribe drug therapy for diseases of the dentition, taking into account the pharmacodynamics and pharmacokinetics of drugs</p> <p>- to assess the effectiveness and safety of drug methods of treating diseases of the dentition</p> <p>- to assess the effectiveness and safety of non-drug methods of treating diseases of the dentition system</p>	<p>- surgical methods of treatment</p> <p>- the skills of providing medical care in emergency cases and emergency forms</p>

				<p>methods of administration, regimen and dose of drugs ID-11PK-2</p> <p>Develops a treatment plan taking into account the course of the disease, selects, prescribes drug therapy, uses methods of non-drug treatment</p>			
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10	PC-4	Carrying out and monitoring the effectiveness of sanitary and anti-epidemic and other preventive measures to protect public health	Sanitary and hygienic standards for the organization of dental surgical care. Algorithm for conducting a preventive dental examination.	ID-1PC-4Conducts preventive examinations of various categories of citizens ID-2PC-4Prevents diseases of the teeth, periodontal disease, oral mucosa, lips, bone tissue of the jaws, peripheral nervous system of the maxillofacial region, temporomandibular joint, salivary glands ID-3PC-4 Performs the prescribed actions in the conduct of anti-epidemic measures in infectious diseases (submission of an emergency notification of the focus of infection, identification and observation of contact persons) ID-4PC-4Uses methods of primary and secondary prevention ID-5PC-4 Applies methods of organization of primary prevention of dental diseases in any age group ID-6PC-4Applies personal protective equipment	-Principles of dispensary observation of persons with diseases of hard tissues of the teeth -Features of specific and non-specific prevention of infectious diseases -Features of the prevention of oncopathology -Clinical picture, symptoms of the main diseases and borderline conditions of the maxillofacial region in adults and children, their prevention -Basics of preventive medicine aimed at strengthening public health	-Conduct preventive examinations of various categories of citizens -Carry out the prevention of caries and non-carious lesions -Apply methods of organizing the primary prevention of dental diseases in any age group -Use personal protective equipment	-skills in conducting preventive examinations of the population - the skills of carrying out measures to prevent diseases of the hard tissues of the teeth - the skills of providing qualified medical care in the treatment of caries and its complications using modern methods of prevention approved for use in medical practice - the skills of brief counseling on the prevention of caries and its complications
11	PC-5	Maintenance of sanitary and hygienic education among the population and medical workers in order to form a healthy lifestyle	Sanitary and hygienic education in the field of prevention of dental diseases in children. Definition, goals, objectives, forms, methods and means of dental education.Материалыпо стоматологическому просвещениюи принципахразработки	ID-1PC-5 Conducts health and hygiene education among patients (their relatives / legal representatives) and medical workers in order to form a healthy lifestyle ID-2PC-5Assesses the physical development and functional state of the patient's body ID-3PC-5Forms in patients	The main criteria for a healthy lifestyle and methods of its formation Forms and methods of sanitary and hygienic education among the population and medical workers The main hygienic measures of a health-	Conduct health and hygiene education among patients (their relatives / legal representatives) and medical workers in order to form a healthy lifestyle To form behavior of patients (their relatives / legal representatives) aimed at maintaining and	Skills of teaching hygienic measures of a healthy nature, contributing to the promotion of health and the prevention of diseases of the hard tissues of the teeth. Compliance with the principles of medical

				(their relatives / legal representatives) behavior aimed at preserving and increasing the level of health	improving nature that contribute to health promotion and prevention of the occurrence of diseases	improving the level of health	ethics and deontology in working with patients (their relatives / legislative representatives), colleagues
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3. Place of the discipline in the structure of educational programs

Discipline «Implantology and reconstructive surgery of the oral cavity» studied in the ninth and tenth semesters, refers to the basic part of the Block1 of the Federal State Educational Standard for Higher Education in the specialty "Dentistry" 31.05.03

Training of students is carried out on the basis of continuity of knowledge and skills acquired in the course of oral surgery.

4. Scope of the discipline

№	a Type of work		Total credits	Total hours	Semesters
					10
					hours
1	2	3	4	5	
1	Students ' contact work with the teacher (total), including:			76	
2	Lectures (L)			4	4
3	Clinical Practice sessions (PZ)			72	72
4	Seminars (S)				
5	Laboratory work (LR)				
6	Independent work of the student (SRS)			32	32
7	Type of intermediate assessment	credit (H)			Credit
		exam (E)			
8	TOTAL: Total labor	intensity of hours		108	
		Z	3		

5. Content of the discipline

№	Semester	Name of the discipline section	Types of educational activities, including independent work of students (in hours)				Current performance monitoring forms (by semesterweek)
			Л	ПЗ	СР	Всего часов	
1.	X	The history of formation, the current state and prospects for the development of dental (dental) implantology.	1	6	6	13	ML, S, DZ, PZ,T,KR, Pr
2.	X	Indications and contraindications (limitations) of dental rehabilitation with dental implants	1	6	6	13	ML, S, DZ, PZ,T,KR, Pr
3.	X	Diagnostics and planning of implantation, instruments, medical perioperative support	0,5	5	5	10,5	ML, LT, S, DZ,PZ,T,KR, Pr
4.	X	Surgical techniques of dental implantation.	0,5	5	5	10,5	ML,LT,S,DZ, PZ, T, KR, Pr,MG,SI
5.	X	Designs of various types of prostheses on dental implants	0,5	5	5	10,5	ML, S, DZ, PZ, T, KR, Pr
6.	X	Prevention and treatment of complications of dental implantation	0,5	5	5	10,5	ML, S, DZ, PZ, T, KR, Pr
7.	X	Analysis of checklists for the course "Simulation course in surgical dentistry"		40		40	ML, S, DZ, PZ, T, KR, Pr
		Total	4	72	32	108	

ML-multimedia lecture;

IS- independent study of topics reflected in the program, but considered in classroom classes;

SG- small group method.

Forms of current control

S- evaluation based on the results of the interview (oral interview);

DZ- verification of written homework;

LR-protection of laboratory work;

T- testing;

KR- control and independent work;

Pr- assessment of the development of practical skills (abilities).

6. List of educational and methodological support for independent work of students in the discipline

№	Semester no. Semester number	Name of the educational and methodical development
1	X	Educational and methodical recommendations "IMPLANTOLOGY AND RECONSTRUCTIVE SURGERY OF THE ORAL CAVITY. TRAINING SIMULATION COURSE ON SURGICAL DENTISTRY" for students of the Faculty of Dentistry for extracurricular SRS. Authors: G.V. Toboev, S.M. Bazaeva, Vladikavkaz 2020

7. Fund of assessment funds for conducting intermediate certification of students in the discipline

№	List of competencies	Semester No	Assessment indicator(s) Assessment	criterion (s) Assessment	scale	Name of the FOS
1	2	3	4	5	6	7
1	UK -1 UK -2 OPK -1 OPK -2 OPK – 5 OPK – 6 OPK -13 PC -1 PC -2 PC -4 PC -5	10	see standard for assessing the quality of education, approved by the Ministry of Education of the Russian Federation. By Order No. 264 / o of the SOGMA Federal State Budgetary Educational Institution of Higher Education of the Ministry of Health	the Russian Federation dated 10.07.2018, see standard for assessing the quality of education, approved by the Ministry of Education of the Russian Federation. By Order No. 264 / o of the SOGMA Federal State Budgetary Educational Institution of Higher Education of the Ministry of Health	the Russian Federation dated 10.07.2018, see standard for assessing the quality of education, approved by the Ministry of Education of the Russian Federation. By Order No. 264 of the Federal State Budgetary Educational Institution of Higher Education of the Ministry of Health of the Russian Federation dated 10.07.2018 / o	Tickets for credit; Test tasks; Control tasks

8. List of basic and additional educational literature required for mastering the discipline

№	A no. Name	Author(s)	Year, place of publicat ion	Number of copies.	
				In the bible	to the depa rtme nt
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Basic literature					
1.	V.V. AfanasievSurgical dentistry (recording and maintaining medical history) : studies. allowance	V.V. Afanasiev,G.A.P ashinan	2005	45	1

2.	Operative maxillofacial surgery and dentistry: studies. allowance	V.A. Kozlov	2014.	30	1
3.	Surgical Dentistry : textbook	T.G.Robustova	2011.	62	1
Additional literature					
4.	Craniofacial surgery in the format 3D:atlas	V.A. Belchenko,A.G. Pritiko,A.V. Klimchuk,V.V. Fillipov	2010	68	1
5.	Surgical dentistry and maxillofacial surgery. Thematic tests: a textbook. In 2 parts.	A.M.Panin,A.M. Biberman,A.F. Bisiaev	2009	51	1

9. List of resources of the information and telecommunication network "Internet" required for mastering the discipline

EBS "Student Consultant", access to textbooks:

1. <http://www.stom.ru/>-Russian Dental Portal
2. <http://www.edentworld.ru/>-Dental Portal eDentWorld
3. <http://www.dentoday.ru/>-Electronic version of the newspaper "Stomatology Today"
4. <http://stomgazeta.ru/>-Archive of the publishing house "Poly Media Press"

10. Guidelines for students on mastering the discipline

Training consists of classroom sessions (108 hours), including a lecture course (4 hours), practical exercises (72 hours), and independent work (32 hours). The main academic time is allocated for practical work on mastering theoretical knowledge, acquiring practical skills and abilities. When studying an academic discipline, it is necessary to use the entire resource of basic and additional educational literature, lecture material, visual aids and demonstration material, and master practical skills acquired during working with visual demonstration aids, working with patients and solving situational problems. Practical classes are conducted in the form of preclinical and clinical practice. Preclinical practice is carried out in classrooms with the use of video and photo materials, and situational tasks are solved. Then the analysis of clinical patients is carried out. In accordance with the requirements of the Federal State Educational Standard for Higher Education, interactive forms of teaching are widely used in the educational process (developing and problem-based learning in the form of role-playing games, mastering practical skills on phantoms, analyzing a specific situation, discussing a theoretical analysis of a topic, multimedia training). The share of classes conducted in interactive forms is at least 10% of classroom classes. Independent work of students implies preparation for seminars and practical classes and includes: working with visual materials, educational basic and additional literature, Internet resources, writing a medical history, an abstract. Working with educational literature is considered as a type of educational work in the specialty "Dentistry" and is performed within the hours allotted for its study (in the SRS section). Each student is provided with access to the library collections of the Academy and the Department. Methodological recommendations for students and guidelines for teachers have been developed for each section of the discipline. During the study of the academic discipline, patients are examined independently, a medical history is drawn up, and an abstract is submitted.

Writing an abstract contributes to the formation of skills in working with educational literature, systematization of knowledge and contributes to the formation of general cultural and professional skills. Writing an educational medical history forms the ability to analyze medical problems, contributes to mastering the culture of thinking, the ability to correctly formulate its results in writing, the formation of a systematic approach to the analysis of medical information, and the perception of innovations. 1 6 The student's work in a group creates a sense of teamwork and sociability. The training of students contributes to the development of communication skills with the patient, taking into account the ethical and deontological features of pathology and patients. Independent work with patients contributes to the formation of professional behavior, responsibility, accuracy, discipline. The initial level of knowledge of students is determined by testing, the current control of mastering the subject is determined by an oral survey during classes, during clinical reviews, when solving typical situational problems and answering test tasks.

11. List of information technologies used in the implementation of the educational process in the discipline

Semester	Type of classes L, PR,S	Educational technologies used (active, interactive)	Number of hours	% of interactive classes	Software list
X	Lecture	LT,KOP	4	90	Multimedia installation: laptop, projector MicrosoftOffice PowerPoint; Acrobat Reader;InternetE xplorer
X	Practical classes	PC, MG, RI,SI	72	6	Information and legal system "Consultant" Information system "Gosreestr LS"Microsoft OfficePowerPoi nt; Acrobat Reader
X	Student Independent Work (SRS)	DZSTZ	32		Information and legal system "Consultant" Information system "Gosreestr LS"MicrosoftOff ice PowerPoint;Ac robatReader
X	Preparation for classes (PC)	UZDZ PrSTZ	12	5	Electronic library of the medical university "Student Consultant"
X	Preparation for ongoing monitoring(PFM)	TDZSTZ	10	5	Electronic library of the medical university "Student Consultant"
X	Preparation for intermediate control(PFC)	TDZSTZ	10	5	scientific electronic library, search by thematic section, journal title, author. Contains a catalog of Russian-language and foreign publications. Sometimes it holds full-text access campaigns. Registration is required.

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

№	a Equipment Name	Quantity	Technical condition
1	2	3	4
Special equipment			
1.	Multimedia complex (laptop, projector, screen)	1	Good
2.	Dental Unit	1	Satisfactory
Phantoms			
3.	-	-	-
Dummy			
4.	Jaw dummies	2	Satisfactory
5.	Skull	1	Satisfactory

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 conducting face-to-face training sessions, it is possible to study this discipline or part of it using e-learning and distance educational technologies.

Teaching the discipline in the situations described above 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, current monitoring of academic performance, 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 files, "live lectures" , etc. Seminars and practical classes can be held on-line in both synchronous and asynchronous modes. Seminars can be held in the form of web conferences.