

Документ подписан простой электронной подписью

Информация о владельце:

ФИО: Поверинов Игорь Егорович

Должность: Проректор по учебной работе

Дата подписания: 13.07.2023 22:11:56

Уникальный программный ключ:

6d465b936eef331cede482bde6d12ab98216652f016465d53b72a2eab04a1b2

**MINISTRY OF EDUCATION AND SCIENCE OF RUSSIA**

**Federal State Budgetary Educational Institution**

**of higher education**

**«I.N. Ulianov Chuvash State University»**

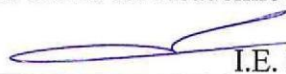
(FSBEI of HE «I.N. Ulianov Chuvash State University»)

Medical Faculty

Department of Safety of Life and engineering Ecology

«APPROVE»

Vice-rector for Academic Affairs

  
I.E. Poverinov

« 13 » 04 2022

**Working programs of the discipline (module)**  
**«Безопасность жизнедеятельности / Health and Safety»**

Direction of training / specialty 31.05.03 Стоматология / Dentistry

Graduate's qualification Врач-стоматолог / Dental Practitioner

Direction (profile) / specialization «Dentistry»

Form of training – очная / intramural

Course – 1

Term – 2

Total academic hours/credit points – 72/2

The year of beginning the training - 2022

The fundamental document for compiling the working program of the discipline (module)  
Федеральный государственный образовательный стандарт высшего образования -  
специалитет по специальности 31.05.03 Стоматология (приказ Минобрнауки России от  
12.08.2020 г. № 984)

Approved by:

Head of the department, Candidate of Economic Sciences V. L. Semenov

The working program was approved at the meeting of the Department of Safety of Life  
and engineering Ecology, 25.03.2022, protocol № 7

Head of the department V. L. Semenov

Approved by

Dean of the Medical Faculty V.N. Diomidova

Acting Head of the Educational and Methodological Department E.A. Shirmanova

### 1. The purpose and objectives of training in the discipline (module)

The purpose of the discipline - The purpose of the discipline is to get an in-depth understanding of life safety as a compulsory general educational discipline, the purpose of which is to form specialists' ideas about the basics of safe and comfortable interaction between a person and his environment (technosphere) both in the process of production activities and in everyday life, as well as in emergency situations that may arise both in peacetime and wartime; learn to apply the acquired knowledge to eliminate man-made hazards in emergency situations.

The objectives of the discipline - - to equip students with theoretical knowledge and practical skills necessary to solve any life safety issues;

- get an in-depth understanding of life safety as an obligatory general educational discipline,

- to teach how to apply the acquired knowledge to eliminate man-made hazards in emergency situations.

### 2. The place of practical training in the structure of the educational program of higher education

The discipline «Безопасность жизнедеятельности / Health and Safety» относится к обязательной части учебного плана refers to the mandatory part in the curriculum of the educational program of higher education (hereinafter referred to as the EP of HE) in the field of training / specialty 31.05.03 Стоматология, direction (profile) / specialization of the program «Dentistry».

Previous academic disciplines (modules) and (or) practices that form the knowledge, skills and abilities necessary for training in the discipline (module):

Knowledge, skills and abilities formed as a result of training in a discipline (module) are necessary when teaching in the following disciplines (modules) and (or) practices:

Биоэтика / Bioethics

Граждановедение и патриотическое воспитание / Civics and Patriotic Education

Социальная адаптация лиц с ОБЗ / Social Adaptation of Persons with Disabilities

Медицина катастроф / Emergency Medicine

### 3. Planned learning outcomes in the discipline (module), correlated with the planned learning outcomes

Planned learning outcomes in the discipline (module), correlated with the planned learning outcomes

Code and name of the competence	Code and name of the competence achievement	Descriptors for the indicator of competence achievement (learning)
УК-8 Способен создавать и поддерживать в повседневной жизни и в профессиональной деятельности безопасные условия жизнедеятельности для сохранения природной среды, обеспечения устойчивого развития общества, в том числе при угрозе и возникновении	УК-8.1 Способен выявлять и анализировать природные и техногенные факторы вредного влияния на среду обитания, социальной жизни и профессиональной деятельности, доводить информацию до компетентных структур /	To know the natural and man- made factors of harmful effects on the environment, social life and professional activities  To be able to bring information to the competent authorities about dangerous and harmful environmental factors  To own methods of identifying and analyzing natural and man- made factors of harmful effects

<p>чрезвычайных ситуаций и военных конфликтов / He/she is able to create and maintain safe living conditions in everyday life and in professional activities to preserve natural environment, ensuring sustainable development of society, including in the face of a threat and advent of emergencies and military conflicts</p>	<p>He/she is able to identify and analyze natural and man-caused factors of harmful influence on the environment, social life and professional activities, bring information to responsible authorities</p>	<p>on the environment, social life and professional activities</p>
<p>УК-8 Способен создавать и поддерживать в повседневной жизни и в профессиональной деятельности безопасные условия жизнедеятельности для сохранения природной среды, обеспечения устойчивого развития общества, в том числе при угрозе и возникновении чрезвычайных ситуаций и военных конфликтов / He/she is able to create and maintain safe living conditions in everyday life and in professional activities to preserve natural environment, ensuring sustainable development of society, including in the face of a threat and advent of emergencies and military conflicts</p>	<p>УК-8.2 Способен создавать и поддерживать безопасные условия жизни и профессиональной деятельности, соблюдать правила безопасности / He/she is able to create and maintain safe living and professional conditions, comply with safety rules</p>	<p>To ways to create and maintain safe living conditions and professional activities, compliance with safety rules</p> <p>To be able to create and maintain a safe living and professional environment, to comply with safety rules</p> <p>To master the techniques of creating safe living conditions and professional activities</p>
<p>УК-8 Способен создавать и поддерживать в повседневной жизни и в профессиональной деятельности безопасные условия жизнедеятельности для сохранения природной среды, обеспечения устойчивого развития общества, в том числе при угрозе и возникновении чрезвычайных ситуаций и военных конфликтов /</p>	<p>УК-8.3 Способен действовать в соответствии с имеющимися инструкциями и рекомендациями, знаниями, опытом; способен оказать первую медицинскую помощь пострадавшим при возникновении чрезвычайных ситуаций / He/she is able to act in accordance with</p>	<p>To know how to act in accordance with the available instructions and recommendations, knowledge, experience in emergency situations</p> <p>To be able to provide first aid to victims in case of emergency</p> <p>To be proficient in first aid in emergency situations and act in accordance with the available instructions and recommendations, knowledge,</p>

<p>He/she is able to create and maintain safe living conditions in everyday life and in professional activities to preserve natural environment, ensuring sustainable development of society, including in the face of a threat and advent of emergencies and military conflicts</p>	<p>available instructions and recommendations, knowledge, experience; he/she is able to provide first aid to victims in emergency situations</p>	<p>experience</p>
<p>ОПК-7 Способен организовывать работу и принимать профессиональные решения при неотложных состояниях, в условиях чрезвычайных ситуаций, эпидемий и в очагах массового поражения / He/she is able to organize work and make professional decisions in urgent conditions, in emergency situations, epidemics and in foci of mass destruction</p>	<p>ОПК-7.1 Способен применить алгоритм оказания первичной медико-санитарной помощи при неотложных состояниях / He/she is able to apply the algorithm of primary health care in emergency conditions</p>	
<p>ОПК-7 Способен организовывать работу и принимать профессиональные решения при неотложных состояниях, в условиях чрезвычайных ситуаций, эпидемий и в очагах массового поражения / He/she is able to organize work and make professional decisions in urgent conditions, in emergency situations, epidemics and in foci of mass destruction</p>	<p>ОПК-7.2 Способен выявлять состояния, требующие оказания первичной медико-санитарной помощи, в том числе клинические признаки внезапного прекращения кровообращения и дыхания / He/she is able to identify conditions requiring primary health care, including clinical signs of sudden cessation of circulation and breathing</p>	
<p>ОПК-7 Способен организовывать работу и принимать профессиональные решения при неотложных состояниях, в условиях чрезвычайных ситуаций, эпидемий и в очагах массового поражения / He/she is able to organize</p>	<p>ОПК-7.3 Способен оказывать первичную медико-санитарную помощь пациентам при состояниях, представляющих угрозу жизни пациентов, в том числе клинической смерти (остановка жизненно важных</p>	

<p>work and make professional decisions in urgent conditions, in emergency situations, epidemics and in foci of mass destruction</p>	<p>функций организма человека (кровообращения и (или) дыхания) / He/she is able to provide primary health care to patients in conditions that represent a threat to the life of patients, including clinical death (cessation of the vital human body functions (blood circulation and (or) breathing)</p>	
<p>ОПК-9 Способен оценивать морфофункциональные, физиологические состояния и патологические процессы в организме человека для решения профессиональных задач / He/she is able to evaluate morphofunctional, physiological states and pathological processes in the human body to solve professional problems</p>	<p>ОПК-9.1 Способен распознавать морфофункциональные, физиологические состояния и патологические процессы в организме человека / He/she is able to recognize morphofunctional, physiological states and pathological processes in the human body</p>	
<p>ОПК-9 Способен оценивать морфофункциональные, физиологические состояния и патологические процессы в организме человека для решения профессиональных задач / He/she is able to evaluate morphofunctional, physiological states and pathological processes in the human body to solve professional problems</p>	<p>ОПК-9.2 Способен анализировать морфофункциональные, физиологические состояния и патологические процессы в организме человека / He/she is able to analyze morphofunctional, physiological states and pathological processes in the human body</p>	
<p>ОПК-9 Способен оценивать морфофункциональные, физиологические состояния и патологические процессы в организме человека для решения</p>	<p>ОПК-9.3 Способен диагностировать морфофункциональные, физиологические состояния и патологические процессы организма человека / He/she is able</p>	

профессиональных задач / He/she is able to evaluate morphofunctional, physiological states and pathological processes in the human body to solve professional problems	to diagnose morphofunctional, physiological states and pathological processes in the human body	
--	---	--

#### 4. Structure, scope and content of the discipline (module)

Educational activities in the discipline (module) are carried out:

- in the form of students' face-to-face work with the teaching staff of the organization and (or) persons involved by the organization to implement the educational programs on other terms (hereinafter - contact work);

- in the form of students' independent work.

Face-to-face work can be classroom-based, extramural, as well as it can be conducted in an electronic information and educational environment (EIEE).

Learning sessions in the discipline (module) and interim assessment of students are conducted in the form of face-to-face work and in the form of students' independent work.

During learning sessions in the discipline (module) face-to-face work includes: lecture-type classes, seminar-type classes and (or) group consultations, and (or) individual work of students with the teaching staff of the organization and (or) persons involved by the organization to implement the educational programs on other terms (including individual consultations).

Legend:

Lec – lectures, Lab – laboratory work, Pr – practical classes, ICW – individual face-to-face work, IW – independent work.

#### 4.1. Content of the discipline (module)

Section name	The section's content	Formed competences	Competence achievement indicator
Industrial sanitation	Introduction to the discipline. Basic terms and definitions		
	Factors of human labor activity. Sanitary and hygienic living conditions		
	The microclimate of industrial premises. Improving the air of the working area		
	Industrial lighting. Industrial noise. Industrial vibration		
Electrical safety	Legal and regulatory framework for electrical safety. The effect of electric current on the human body		
	Means of protection against the effects of		

	electric current		
Fire safety	Fire prevention and active fire protection		
	Fire extinguishing technology. Fire fighting measures		
Protection of the population and territories in emergency situations	Unified State System for Prevention and Elimination of Emergency Situations		
	Accidents at radiation and chemically hazardous facilities		
Individual contact work	ICW		

#### 4.2. Scope of the discipline and types of academic work

Forms of control and types of academic work		Labor intensity of the discipline (module)	
		2	total
1. Face-to-face work:		32,2	32,2
In-class learning in total, including:		32	32
Лекционные занятия (Лек)		16	16
Практические занятия (Пр)		16	16
Индивидуальная контактная работа (ИКР)		0,2	0,2
2. Independent work of the student:		39,8	39,8
3. Intermediate certification (exam) (зачет)		3а	3а
Total:	academic hours	72	72
	credit units	2	2

№ item	The section's (theme's) name	Face-to face work, including in the electronic information and educational environment, academic hours				IW, academic hours	Total, academic hours
		Lect.	Pr.	Lab.	ICW		
	Industrial sanitation						
1	Introduction to the discipline. Basic terms and definitions	1				4	5

2	Factors of human labor activity. Sanitary and hygienic living conditions	2	2			4	8
3	The microclimate of industrial premises. Improving the air of the working area	2	2			4	8
4	Industrial lighting. Industrial noise. Industrial vibration	2	3			4	9
	Electrical safety						
5	Legal and regulatory framework for electrical safety. The effect of electric current on the human body	2	2			4	8
6	Means of protection against the effects of electric current	2	2			4	8
	Fire safety						
7	Fire prevention and active fire protection	1	1			4	6
8	Fire extinguishing technology. Fire fighting measures	1	1			4	6
	Protection of the population and territories in emergency situations						
9	Unified State System for Prevention and Elimination of Emergency Situations	1	1			4	6
10	Accidents at radiation and chemically hazardous facilities	2	2			3,8	7,8
	Individual contact work						
11	ICW				0,2		0,2
Total academic hours		16	16		0,2	39,8	72

#### 4.3. Summary of the discipline (module), structured by sections (topics)

##### Раздел 1. Industrial sanitation

##### Тема 1. Introduction to the discipline. Basic terms and definitions

Лекционное занятие. Basic terms and definitions

##### Тема 2. Factors of human labor activity. Sanitary and hygienic living conditions

Лекционное занятие. Factors of human labor activity.

Практическое занятие. Sanitary and hygienic conditions

**Тема 3. The microclimate of industrial premises. Improving the air of the working area**

Лекционное занятие. The microclimate of industrial premises.

Практическое занятие. Improving the air of the working area

**Тема 4. Industrial lighting. Industrial noise. Industrial vibration**

Лекционное занятие. Industrial lighting. Industrial noise.

Практическое занятие. Industrial vibration

**Раздел 2. Electrical safety**

**Тема 5. Legal and regulatory framework for electrical safety. The effect of electric current on the human body**

Лекционное занятие. Legal and regulatory framework for electrical safety.

Практическое занятие. The effect of electric current on the human body

**Тема 6. Means of protection against the effects of electric current**

Лекционное занятие. Means of protection against the effects of electric current

Практическое занятие. Means of protection against the effects of electric current

**Раздел 3. Fire safety**

**Тема 7. Fire prevention and active fire protection**

Лекционное занятие. Fire prevention and active fire protection

Практическое занятие. Fire prevention and active fire protection

## **Тема 8. Fire extinguishing technology. Fire fighting measures**

Лекционное занятие. Fire extinguishing technology.

Практическое занятие. Fire fighting measures

## **Раздел 4. Protection of the population and territories in emergency situations**

### **Тема 9. Unified State System for Prevention and Elimination of Emergency Situations**

Лекционное занятие. Unified State System for Prevention and Elimination of Emergency Situations

Практическое занятие. Unified State System for Prevention and Elimination of Emergency Situations

### **Тема 10. Accidents at radiation and chemically hazardous facilities**

Лекционное занятие. Accidents at radiation and chemically hazardous facilities

Практическое занятие. Accidents at radiation and chemically hazardous facilities

## **5. Educational technologies**

To implement the competence-based approach in the study of the discipline (module), extensive use of active and interactive methods of conducting classes in the educational process is provided:

### **6. Forms of control and types of evaluation materials for the discipline (module)**

Intermediate attestation - evaluation of intermediate and final results of training in the discipline (module).

#### **6.1. Sample list of questions for the credit test**

1. The subject of study of the discipline "Life safety". Main goals and objectives.
2. Basic axioms about technogenic hazards.
3. Dangerous and harmful production factors.
4. Types of regulatory and technical documentation on the safety of life in the technosphere.
5. System of labor safety standards (SSBT).
6. Sanitary and hygienic conditions of human life.
7. Job description.
8. Briefing of workers on labor protection.
9. Evaluation of working conditions in terms of severity and intensity.
10. Biologically significant factors.
11. Industrial injuries and occupational diseases.

12. Technical causes of accidents at work.
  13. Organizational causes of accidents at work.
  14. Sanitary and hygienic causes of accidents at work.
  15. Psychophysiological causes of accidents at work.
  16. Procedure for investigating accidents.
  17. Obligations of the employer in case of an accident at work.
  18. Registration of materials for the investigation of accidents.
  19. Thermal balance of man with the environment.
  20. Types of body thermoregulation.
  21. Infrared radiation, impact features, protection measures.
  22. Types of natural and mechanical ventilation.
  23. Methods for calculating general ventilation to remove harmful substances, excess heat and moisture.
  24. Features of human vision.
  25. Quantitative and qualitative characteristics of lighting.
  26. Requirements for lighting.
  27. Systems and types of lighting.
  28. Industrial noise. sound field. Sound power.
  29. Peculiarities of human perception of noise. Acoustic calculation.
  30. Industrial vibration. Types of vibration.
  31. The impact of vibration on a person.
  32. Methods for reducing vibration.
  33. Normative bases of electrical safety.
  34. State and industry regulations.
  35. Threshold levels of currents.
  36. Factors affecting the outcome of a person's electric shock.
  37. Resistance of the human body. Maximum permissible values of currents.
  38. Classification of premises according to the danger of electric shock.
  39. Providing first aid to the victim from the effects of electric current.
  40. Basic protective measures. Grounding.
  41. Spreading of current in the ground from the ground electrode. Touch and step voltage.
  42. Analysis of the dangers of electrical networks.
  43. Protective grounding: principle of operation, scope.
  44. Protective grounding: principle of operation, scope.
  45. Protective shutdown device.
  46. Organizational and technical measures to ensure the safety of work in existing electrical installations.
  47. Types of combustion.
  48. Fire prevention and active fire protection.
  49. Categories of productions on fire and explosion safety.
  50. Fire protection.
  51. Classification of premises according to the degree of fire resistance, fire resistance limits.
  52. Explosive and fire hazardous areas.
  53. Preventive fire fighting measures.
  54. Types of fire fighting equipment.
  55. Fire detectors. Fire-fighting equipment. Fire hydrants and fire extinguishers.
  56. Organization of the fire protection of the enterprise.
  57. Purpose and structure of RSChS and civil defense.
  58. The structure of the object link RSChS and GO.
  59. Rights and obligations of citizens of the Russian Federation in the event of a

threat and in the event of an emergency.

60. Classification of emergencies according to the scale of distribution.
61. Classification of emergencies according to the type of events that have occurred.
62. Enterprises of the nuclear fuel cycle.
63. Sanitary protection zone and surveillance zone.
64. The concept and phases of development of a radiation accident.
65. Measures to protect the population from radiation pollution.
66. Protective properties of filtering industrial and civil gas masks.
67. Classification of chemically hazardous objects (CHOO).
68. Hazard categories XOO.
69. Characteristics of a chemical accident.
70. Zones of chemical contamination.

#### **6.2. Sample list of questions for the examination**

Not provided

#### **6.3. Suggested themes of term papers (projects)**

Not provided

#### **6.4. Suggested themes of term projects**

Not provided

#### **6.5. Suggested topics of calculation and graphic works**

Not provided

### **7. Educational, methodological, informational and software support of the discipline (module)**

The electronic catalog and electronic information resources provided by the scientific library of the FSBEI of HE "I. N. Ulianov Chuvash State University" are available at the link <http://library.chvsu.ru/>

#### **7.1. Regulatory documents, standards and rules**

1. On civil defense: Federal Law of February 12, 1998 N 28-FZ: [Adopted by the State Duma on December 26, 1997: Approved by the Federation Council on January 28, 1998]: [edition of December 08, 2020]. - URL: [http://www.consultant.ru/document/cons\\_doc\\_LAW\\_17861/](http://www.consultant.ru/document/cons_doc_LAW_17861/) (accessed 08/28/2022). - Text: electronic.

2. On the protection of the population and territories from natural and man-made emergencies: Federal Law of December 21, 1994 N 68-FZ: [Adopted by the State Duma on November 11, 1994]: [edition of December 08, 2020]. - URL: [http://www.consultant.ru/document/cons\\_doc\\_LAW\\_5295/](http://www.consultant.ru/document/cons_doc_LAW_5295/) (accessed 08/28/2022)). - Text: electronic.

#### **7.2. Recommended basic educational and methodological literature**

No item	Name
1	

#### **7.3. Recommended supplementary educational and methodological literature**

No item	Name
1	

#### **7.4. List of resources of the "Internet" information and telecommunication network**

№ item	Name	Link to the resource
--------	------	----------------------

1	Russian State Library [Electronic resource]. – Access mode: <a href="http://www.rsl.ru">http://www.rsl.ru</a> (date of access: 28.08.2022)	<a href="http://www.rsl.ru/">http://www.rsl.ru/</a>
2	Single window to educational resources [Electronic resource]. – Access mode: <a href="http://window.edu.ru">http://window.edu.ru</a> (date of access: 08/28/2022)	<a href="http://window.edu.ru/">http://window.edu.ru/</a>

### **7.5. Software, professional databases, information and reference systems, electronic educational resources and electronic library systems**

Software, professional databases, information and reference systems provided by the Informatization Department of the FSBEI of HE "I.N. Ulianov Chuvash State University" are available for download at the link <http://ui.chuvsu.ru/>. The Unified Register of Russian programs for electronic computers and databases, including freely distributed ones, is available at the link [reestr.minsvyaz.ru/reestr/](http://reestr.minsvyaz.ru/reestr/).

#### **7.5.1. Licensed and freely distributed software**

Microsoft Windows operating System and/or Unix-like operating system and/or mobile operating system;

Office software packages:

Microsoft Office and/or LibreOffice

and (or) OpenOffice and (or) analogues;

Browsers, including Yandex.Browser.

List of software:

#### **7.5.2. Lists of professional databases and (or) information reference systems and (or) electronic library systems and (or) electronic educational resources**

## **8. Material and technical support of the discipline**

Classrooms for lecture-type classes in the discipline are equipped with a teacher's automated workplace consisting of: a personal computer/laptop, multimedia equipment with a screen and (or) SMART interactive whiteboard/SMART TV.

The premises for students' independent work are equipped with computer equipment enabling to connect to the Internet and provide access to the electronic information and educational environment of the FSBEI of HE "I.N. Ulianov Chuvash State University".

No item	Lesson type	Brief description and characteristics of the composition of installations, measuring and diagnostic equipment, computer equipment and experimental automation tools
1		

## **9. Means of adapting the discipline teaching to the needs of persons with physical conditions**

If necessary, persons with physical conditions can be offered one of the following options for perceiving information, taking into account their individual psychophysical characteristics:

- 1) using e-learning and distance learning technologies.
- 2) using special equipment (enginery) and software in accordance with the students' health restrictions in the Training Centers for Persons with Disabilities and Physical Conditions (hereinafter referred to as special needs) available at the university.

In the course of training, if necessary, the following conditions are provided for persons with visual, hearing and musculoskeletal disorders:

- for persons with visual impairments: educational and methodological materials in printed form in enlarged font; in the form of an electronic document; in the form of an audio file (conversion of educational materials into audio format); in printed form in Braille; individual consultations involving a tactile interpreter; individual assignments and consultations.

- for people with hearing impairments: educational and methodological materials in printed form; in the form of an electronic document; video materials with subtitles; individual consultations involving a sign language interpreter; individual assignments and consultations.

- for persons with disorders of the musculoskeletal system: educational and methodological materials in printed form; in the form of an electronic document; in the form of an audio file; individual assignments and consultations.

## **10. Guidelines for students to perform independent work**

The purpose of the student's independent work (IW) is to consolidate the theoretical knowledge gained and to acquire practical skills in using and performing research of algorithms and data structures when designing application software programs. IW includes independent study of educational issues, preparation for laboratory classes, performing calculation and graphic work, preparation for a test and an exam.

The list of questions and tasks for independent work to prepare for laboratory classes is given in the corresponding methodological instructive regulations in the description of each laboratory work.

The list of questions and tasks for independent work to carry out calculation and graphic work is given in the relevant methodological instructive regulations.

Independent work is determined by the specifics of the discipline and the methodology of its teaching, the time provided by the curriculum, as well as the level of study at which the discipline is studied.

For self-training, the following sources can be recommended: lecture notes and / or practical classes, educational literature of the appropriate profile.

At the beginning of the course, the teacher informs students about the forms, types and content of independent work, explains the requirements for the results of independent work, as well as the forms and methods of control and evaluation criteria.

## **11. Methodological instructive regulations for students studying the discipline (module)**

The necessary conditions for mastering the discipline are knowledge of the main significant problems of life safety, practical skills and abilities to reasonably act in everyday activities and in emergencies and eliminate negative consequences.

Starting to study the discipline (module), it is necessary first of all to familiarize yourself with the content of the work program of the discipline (module).

The lectures are intended to provide a systematic basis for scientific knowledge. When studying and working out theoretical material, it is necessary:

- repeat the material outlined in the lecture session and supplement it taking into account the literature recommended on this topic;
- when independently studying a theoretical topic, make a summary using the literary sources recommended in the RAP.
- in preparation for the current and intermediate control, use the materials of the FOS.

Working with educational, methodological and scientific literature is one of the important forms of work on the study of the discipline (module) and is necessary in preparation for an oral survey in seminar-type classes, tests / exams. It includes the study of lecture material - the study of recommended sources and literature on the subject of lectures. The lecture summary should contain an abstract record of the main questions of the lecture, the schemes proposed by the teacher (when they are demonstrated), the main sources and literature on the topics, conclusions on each issue. The abstract must be completed in a separate notebook for the discipline (module). It should be neat, legible, and contain no irrelevant information or graphics.

Abstracts of scientific literature in preparation for classes should also be made accurately, contain answers to each question posed in the topic, have a link to the source of information with the obligatory indication of the author, title and year of publication of the scientific literature used. The abstract can be a reference (contain only the main key positions), but at the same time allowing a complete answer to the question, it can be detailed. The volume of the abstract is determined by the student himself.

In the process of working with educational and scientific literature, the student can:

- make notes in the course of reading in the form of a simple or detailed plan (create a list of the main issues discussed in the source);
- compose abstracts (quoting the most important parts of an article or monograph, a short summary of the main thoughts of the author);
- prepare annotations (a brief summary of the main issues of the work);
- create abstracts (detailed theses, which).

Work with literature should begin with an analysis of the RAP, which lists the main and additional literature, educational and methodological publications necessary for studying the discipline (module) and working in seminar-type classes.

After selecting the desired source, you should find the section of interest by the table of contents or alphabetical index, as well as the section of the lecture notes or textbook of the same name. In case of difficulties in understanding the educational material, one should turn to other sources, where the presentation may be more accessible. It should be noted that working with literature is not only useful as a means of a deeper study of any discipline (module), but is also an integral part of the future graduate's professional activity.

### **11.1. Methodological instructive regulations for preparing for seminar-type classes**

A practical lesson is one of the forms of educational work, which is focused on consolidating the studied theoretical material, its deeper assimilation and the formation of the ability to apply theoretical knowledge for practical, applied purposes. Particular attention in practical classes is paid to the development of educational or professional skills. Such skills are formed in the process of performing specific tasks - exercises, tasks, etc. under the guidance and control of the teacher.

The main goal of practical training is the formation of skills and the acquisition of practical experience aimed at the formation of competencies. The content of practical classes is solving various kinds of problems, including professional ones (analysis of production situations, solving situational production problems, demonstrating the development of

professional functions during experiments, etc.), performing calculations, calculations, studying the dynamics of various indicators, working with software software, work with legal documents, instructional materials, reference books, etc.

To prepare for a practical lesson, the student needs to study the theoretical material on this topic, remember the basic definitions and terms, and analyze the lecture material. To consolidate the material covered, the student also needs to do homework in accordance with the assignment received in the previous practical lesson. In case of difficulties in its implementation, it is recommended to seek help from the teacher at the time allotted for consultations.

Stages of preparation for a practical lesson:

- study of the theoretical material received at the lecture and in the process of independent work;

-study and analysis of the recommended literature;

- taking notes of what was read during the study of the recommended literature;

-doing homework;

-self-examination on control questions of the topic;

-formulation of opinions and preparation of questions for a practical lesson that arose during independent work.

Practical classes develop students' skills of independent work to solve specific problems.

## **11.2. Methodological instructive regulations for preparing for an examination**

Not provided

## **11.3. Methodological instructive regulations for preparing for a test**

Preparing students for graduation includes:

-viewing the program of the training course;

- determination of the sources necessary for the preparation (textbooks, additional literature, Internet resources, etc.) and their study;

-use of lecture notes, practical training materials;

- teacher consultation.

Preparation for the test begins with the first lesson in the discipline, in which students receive a general attitude from the teacher and a list of basic requirements for current and final reporting. At the same time, it is important to systematically master the material from the very beginning,

guided, first of all, by the list of questions for the test, outline the sources that are important for solving educational problems.

A student who has completed in full the tasks provided for in the work program of the discipline (module) is allowed to pass. In case of missing any types of training sessions for good or bad reasons, the student independently

performs and submits for verification in writing general or individual tasks determined by the teacher. The test for the theoretical course takes place in oral or written form (determined by the teacher) on the basis of a list of questions that reflect the content of the current work program of the academic discipline.

Students are encouraged to:

- prepare for the test by carefully reading the questions for the test;

- make a plan for answering each question, highlighting the key points of the material;

- after studying several questions, discuss them with classmates.

The answer must be reasoned. The results of passing tests are evaluated by a mark "read" or "unread".

**11.4. Methodological instructive regulations for performing computational and graphical**

Not provided

**11.5. Methodological instructive regulations for performing a control work**

Not provided

**11.6. Methodological instructive regulations for performing a course work (project)**

Not provided

### List of additions and changes

The name and details (if any) of the document attached to the Working Program of the discipline (module) containing the text of updates	Department's decision		Full name of department head:
	Date	Protocol №	