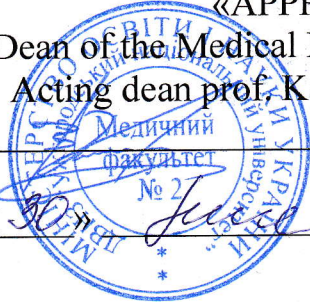


**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
STATE UNIVERSITY
"UZHHOROD NATIONAL UNIVERSITY"
MEDICAL FACULTY 2
DEPARTMENT OF PUBLIC HEALTH AND HUMANITARIAN DISCIPLINES**

«APPROVED»
Dean of the Medical Faculty 2
Acting dean prof. Kaliy V.V.



«*[Signature]*» 2025

CC3. LABOR PROTECTION IN THE INDUSTRY, LIFE SAFETY AND CIVIL PROTECTION

Educational level	Second (Master)
Subject area	22 "Health" / I "Health and Social Welfare"
Specialty	222 "Medicine" / I2 "Medicine"
Educational program	"General Medicine"
Discipline status	Compulsory
The language of instruction	English

Labor protection in the industry, life safety and civil protection working program for international students with English language of studying, the studying direction 22 “Health Care”, specialty 222 “Medicine”, educational program “General Medicine”

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The syllabus was discussed and approved at the meeting of the Department of Public Health and Humanitarian Disciplines

Minutes № 10/1 of « 13 » June 2025

Head of the Department  / Renata POHORILIAK/

Approved by the Scientific-Methodical Commission of the Medical Faculty 2

Minutes № 10 of « 16 » June 2025

Head of the Scientific-Methodical Commission  / Nataliia MALETS /

1. DESCRIPTION OF THE COURSE

Name of indicators	Distribution of hours according to the curriculum	
	Full-time teaching	External form of teaching
Credits ECTS – 3	Year of training:	
The total number of hours – 90	1	-
Number of modules – 1	Semester:	
Weekly hours for full-time study: classroom – 2 individual work of students – 2,5	1	-
	Lectures:	
	-	-
	Practical:	
	-	-
Type of final control: exam	Laboratory:	
	30	-
Form of final control: oral	Individual work:	
	60	-

2. PURPOSE OF THE COURSE

The purpose of studying the educational discipline " **Labor protection in the industry, life safety and civil protection** " is the formation of future specialists' knowledge, skills and competences, as well as the education of a safety culture to ensure effective management of occupational safety in the medical industry, the creation of favorable conditions for the industrial environment and occupational safety in accordance with the current legislative and regulatory acts to implement the priority principle of protecting the life and health of medical workers.

According to the educational program, the study of the discipline contributes to the formation of the following competencies in students of higher education:

General competences:

- Ability to abstract thinking, analysis and synthesis.
- The ability to learn and master modern knowledge.
- Ability to apply knowledge in practical situations.
- Knowledge and understanding of the subject area and understanding of professional activity.
- Ability to adapt and act in a new situation.
- Ability to make informed decisions.
- The ability to act socially responsibly and consciously.
- Efforts to preserve the environment.
- Ability to act on the basis of ethical considerations (motives).

Professional competences:

- Ability to determine the tactics of providing emergency medical care
- Skills in providing emergency medical care
- Skills of performing medical manipulations
- The ability to determine the necessary regime of work and rest in the treatment of diseases
- The ability to determine therapeutic nutrition in the treatment of diseases.
- Ability to plan preventive and anti-epidemic measures for infectious diseases
- Ability to carry out preventive and anti-epidemic measures regarding infectious diseases
- Ability to determine the tactics of managing a contingent of persons subject to dispensary supervision
- Ability to carry out a work capacity examination
- Ability to maintain medical documentation
- Ability to process state, social, economic and medical information.

3. PREREQUISITES FOR STUDYING THE EDUCATIONAL DISCIPLINE

Since the discipline " **Labor protection in the industry, life safety and civil protection** " is studied in the first year of the medical faculty, there are no prerequisites for its study.

4. EXPECTED LEARNING OUTCOMES

According to the educational program «**Labor protection in the industry, life safety and civil protection**», the study of the discipline should ensure that higher education students achieve the following program learning outcomes (PLO):

Program learning outcomes	PLO code
Plan measures to prevent the spread of infectious diseases. Carry out detection and early diagnosis of infectious diseases; primary anti-epidemic measures in the focus of an infectious disease. Identify risk groups, risk areas, time of risk, risk factors and carry out an epidemiological analysis of infectious diseases of the population.	PLO 13
Identify negative environmental factors; to analyze the state of health of a certain contingent; determine the existence of a connection between the state of the environment and the state of health of a certain contingent; develop preventive measures based on data on the relationship between the state of the environment and the state of health of a certain contingent. Conduct an analysis of population morbidity, identifying risk groups, risk areas, time of risk, risk factors. Assess the impact of socio-economic and biological determinants on the health of the individual, family, and population.	PLO 18
To study the scope and effectiveness of the activity of a doctor, unit, health care institution; identify defects in activity and the reasons for their formation. Conduct selection and use unified clinical protocols for providing medical care developed on the basis of evidence-based medicine; develop and use local protocols for the provision of medical care. Conduct quality control of medical care; determine the factors that prevent the improvement of the quality and safety of medical care. Assess the cost of medical services; justify the choice of an adequate method of financing (payment) and the choice of rational forms of organization of the provision of medical services. Apply methods of economic analysis when choosing methods of diagnosis, prevention, treatment, rehabilitation.	PLO 19
Organize the work of medical personnel; form rational medical routes for patients; organize interaction with colleagues, organizations and institutions; apply tools for the promotion of medical services.	PLO 20
Follow a healthy lifestyle, use self-regulation and self-control techniques.	PLO 22
To be aware of and be guided in one's activities by civil rights, freedoms and duties, to raise the general educational cultural level.	PLO 23
To comply with the requirements of ethics, bioethics and deontology his professional activity.	PLO 24

Expected learning outcomes, which should be achieved by students after mastering the study discipline " **Labor protection in the industry, life safety and civil protection** ":

ELO code	Expected learning outcomes in the discipline	PLO code
ELO 13	Ability to plan measures to prevent the spread of infectious diseases. Carry out detection and early diagnosis of infectious diseases; primary anti-epidemic measures in the focus of an infectious disease. Identify risk groups, risk areas, time of risk, risk factors and carry out an epidemiological analysis of infectious diseases of the population.	PLO 13
ELO 18	Ability to identify negative environmental factors; to analyze the state of health of a certain contingent; determine the existence of a connection between the state of the environment and the state of health of a certain contingent; develop preventive measures based on data on the relationship between the state of the environment and the state of health of a certain contingent. Conduct an analysis of population morbidity, identifying risk groups, risk areas, time of risk, risk factors. Assess the impact of socio-economic and biological determinants on the health of the individual, family, and population.	PLO 18
ELO 19	The ability to investigate the scope and effectiveness of the activity of a doctor, unit, health care institution; identify defects in activity and the reasons for their formation. Conduct selection and use unified clinical protocols for providing medical care developed on the basis of evidence-based medicine; develop and use local protocols for the provision of medical care. Conduct quality control of medical care; determine the factors that prevent the improvement of the quality and safety of medical care. Assess the cost of medical services; justify the choice of an adequate method of financing (payment) and the choice of rational forms of organization of the provision of medical services. Apply methods of economic analysis when choosing methods of diagnosis, prevention, treatment, rehabilitation.	PLO 19
ELO 20	Ability to organize the work of medical personnel; form rational medical routes for patients; organize interaction with colleagues, organizations and institutions; apply tools for the promotion of medical services.	PLO 20
ELO 22	Ability to follow a healthy lifestyle, use self-regulation and self-control techniques	PLO 22
ELO 23	The ability to be aware of and be guided in one's activities by civil rights, freedoms and duties, to raise the general educational cultural level.	PLO 23
ELO 24	The ability to comply with the requirements of ethics, bioethics and deontology.	PLO 24

5. DIAGNOSTICS AND CRITERIA FOR EVALUATION OF LEARNING RESULTS

Assessment tools and methods for demonstrating learning outcomes

Means of assessment and methods of demonstrating learning outcomes in the discipline are:

PLO 13	Test control, oral examination, situational tasks.
PLO 18	Test control, oral examination.
PLO 19	Test control, oral examination, situational tasks.
PLO 20	Test control, oral examination, situational tasks.
PLO 22	Test control, oral examination.
PLO 23	Test control, oral examination, situational tasks.
PLO 24	Test control, oral examination, situational tasks.

Forms of control and criteria for evaluating learning outcomes

Forms of current control: test, written, oral

Form of modular control: test, written

Form of final semester control: oral - test, exam.

Distribution of points received by applicants for higher education

Ongoing assessment and independent work														Modular control work	Sum	
T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14		80	200
8,5	8,5	8,5	8,5	8,5	8,5	8,5	8,5	8,5	8,5	8,5	8,5	8,5	8,5			

T1-T14 – Topics

Assessment of certain types of educational work in the discipline

Type of activity of the applicant for higher education	Module	
	Number	Maximum number of points (total)
Practical classes	14	120
Modular control	1	80
Together		200

Criteria for evaluating modular control work

The student is admitted to the final modular control if the conditions of the curriculum are met, if for the current academic activity in the discipline he scored at least 72 points, as well as if the student has not missed a single lesson.

The minimum grade that a student can receive for a modular test is - 48 points.

Conversion of points

Module I			
Practical lesson	Current success	Modular control work	200-point system
«A» - 7,5-8	108-120	«A» - 72-80	«A» - 180-200
«B» - 7	98-107	«B» - 65-71	«B» - 164-179
«C» - 6	89-97	«C» - 59-64	«C» - 163-148
«D» - 5,5	77-88	«D» - 51-58	«D» - 128-147
«E» - 6	72-76	«E» - 48-50	«E» - 120-127
«Fx» - 3-4	42-71	«Fx» - 28-47	«Fx» - 70-119
«F» - 0	0-41	«F» - 0-27	«F» - 0-69

Criteria for evaluating the final semester control

The maximum number of points assigned to students when mastering the module (credit) - **200 points**, including for current educational activities - **120 points** (sum of points for current educational activities and for independent work of the student), according to the results of modular final control - **80 points**. Students who have completed the curriculum and received at least **72 points (35%)** for current performance and modular control work, as well as in the absence of missed classes are admitted to the test and exam.

The final grade for the test is derived by adding the grade for the current performance and the modular grade.

The final grade for the exam is calculated as the arithmetic mean of the two modules.

If one of the modules is less than **120 points**, the student must pass the exam.

Total points for all the educational activities	Score scale ECTS	Assessment on a national scale	
		For exam	For test
180-200	A	perfectly	Passed
164-178	B	good	
148-163	C	Satisfactorily	
128-147	D		
120-127	E		
70-119	FX	Poor may re-take the exam	Not passed may re-up test
0-69	F	Poor from the compulsory re-learning courses	Not credited with the compulsory re-learning courses

6. STRUCTURE OF DISCIPLINE

6.1. The content of the discipline

Semantic module 1

Topic 1. Legal and organizational foundations of labor protection.
Topic 2. Organization of labor protection in medical institutions and institutions of medical education.
Topic 3. Hygiene and physiology of work, importance for creating safe working conditions.
Topic 4. Peculiarities of working conditions in the medical field.
Topic 5. Professional hazards in the performance of functional duties of medical workers.
Topic 6. Hygienic characteristics of working conditions and the state of health of medical workers.
Topic 7. Accidents in medical and preventive institutions, their investigation and accounting.
Topic 8. Dangerous infectious diseases in the work of medical workers. Basics of industrial safety of medical workers.
Topic 9. Occupational health and safety in medical institutions, subdivisions of medical facilities and higher medical educational institutions.
Topic 10. Theoretical foundations of life safety.
Topic 11. Man in the system "man - external environment".
Topic 12. Ensuring the safety of human activities.
Topic 13. Food safety as a component of safe human activity.
Topic 14. The value of the external environment in the system "man - external environment".
Module work

6.2. Structure of discipline

Names of content modules and themes	Number of hours					
	Classroom					
	Whole	Including				
		Lectures	Practical	Laboratory	Independent	Individual
1 semester						
Module 1						
Topic 1. Legal and organizational foundations of labor protection.	7			2		5
Topic 2. Organization of labor protection in medical institutions and institutions of medical education.	7			2		5
Topic 3. Hygiene and physiology of work, importance for creating safe working conditions.	7			2		5
Topic 4. Peculiarities of working conditions in the medical field.	7			2		5
Topic 5. Professional hazards in the performance of functional duties of medical workers.	7			2		5
Topic 6. Hygienic characteristics of working conditions and the state of health of medical workers.	7			2		5
Topic 7. Accidents in medical and preventive institutions, their investigation and accounting.	7			2		5
Topic 8. Dangerous infectious diseases in the work of medical workers. Basics of industrial safety of medical workers.	7			2		5
Topic 9. Occupational health and safety in medical institutions, subdivisions of medical facilities and higher medical educational institutions.	7			2		4
Topic 10. Theoretical foundations of life safety.	5			2		3
Topic 11. Man in the system "man - external environment".	6			2		4
Topic 12. Ensuring the safety of human activities.	5			2		3
Topic 13. Food safety as a component of safe human activity.	4			2		2
Topic 14. The value of the external environment in the system "man - external environment".	4			2		2
Final module control	4			2		2
Together for the module	90			30		60
Together for the semester	90			30		60

6.3. Topics of practical (laboratory) classes

№	Theme	Number of hours	
		Intramural	Extramural
1	Legal and organizational foundations of labor protection.	2	-
2	Organization of labor protection in medical institutions and institutions of medical education.	2	-
3	Hygiene and physiology of work, importance for creating safe working conditions.	2	-
4	Peculiarities of working conditions in the medical field.	2	-
5	Professional hazards in the performance of functional duties of medical workers.	2	-
6	Hygienic characteristics of working conditions and the state of health of medical workers.	2	-
7	Accidents in medical and preventive institutions, their investigation and accounting.	2	-
8	Dangerous infectious diseases in the work of medical workers. Basics of industrial safety of medical workers.	2	-
9	Occupational health and safety in medical institutions, subdivisions of medical facilities and higher medical educational institutions.	2	-
10	Theoretical foundations of life safety.	2	-
11	Man in the system "man - external environment".	2	-
12	Ensuring the safety of human activities.	2	-
13	Food safety as a component of safe human activity.	2	-
14	The value of the external environment in the system "man - external environment".	2	-
15	Final module control	2	-

6.5. Individual tasks

There is no requirement to perform an individual task.

7. INSTRUMENTS, EQUIPMENT AND SOFTWARE USED BY THE COURSE

Hardware: computers with Internet access, multimedia tools, teaching materials.

Software: system software, Google-meet application, Moodle open source learning platform.

8. RECOMMENDED SOURCES OF INFORMATION

Recommended Literature

1. Occupational health and safety in the industry: a study guide / P.S. Atamanchuk, V.V. Menderetskiy, R.M. Belyy - K.: Center for educational literature", 2017. - 322 p.
2. Occupational health and safety in the medical field: Teaching method manual for medical universities IV of the Russian Federation - 2nd ed., edited. .AND. etc. - K., 2017. - 208 p. 2. Life safety, basics of occupational health and safety: educational method. manual / O. P. Yavorovskiy, V. M. Shevtsova, V. I. Zenkina, etc.; in general ed. O. P. Yavorovskiy. - K.: VSV "Medicine", 2015. - 288 p.

3. Life safety, basics of occupational health and safety: educational method. manual / ref.: O. P. Yavorovskiy, V. M. Shevtsova, G. A. Shkurko, etc. - Cherkasy: Yu. A. Chabanenko publisher, 2012. – 232 p.
4. Occupational hygiene: Textbook / Yu. I. Kundiyev, O. P. Yavorovskiy, A. M. Shevchenko, etc.; under the editorship Acad. National Academy of Sciences of Ukraine, National Academy of Sciences of Ukraine, prof. Yu. I. Kundieva, member-cor. National Academy of Sciences of Ukraine prof. O. P. Yavorovskiy. - K.: VSV "Medicine", 2011. - 904 p.

Additional

1. Hygiene and labor protection of medical workers. Study guide/Ed. V. F. Moskalenko, O. P. Yavorovskiy. - K.: "Medicine", 2009. - P. 6 - 56.
2. Hygiene and labor protection of medical workers. Study guide/Ed. V. F. Moskalenko, O. P. Yavorovskiy. - K.: "Medytsyna", 2009. - 176 p.
3. Constitution of Ukraine. Basic Law dated 28.06.1996.
4. Code of Labor Laws of Ukraine. Law No. 322-VIII dated 10.12.71.
5. Law of Ukraine "On Labor Protection" dated 24.02.94.
6. Law of Ukraine "On Ensuring Sanitary and Epidemic Welfare of the Population" No. 4004-XII dated 24.02.94.
7. Law of Ukraine "On Collective Agreements and Agreements" No. 1874 of 12/24/95.
8. Law of Ukraine "On Insurance Tariffs for Mandatory State Social Insurance against Accidents at Work and Occupational Diseases That Caused Loss of Working Capacity" No. 1423 dated September 13, 2000.
9. Law of Ukraine "On Administrative Violations" No. 8074-10 dated 07.12.84.
10. Fundamentals of the legislation of Ukraine on health care No. 2802 - XII of 11/19/92.
11. Law of Ukraine "On Human Protection from Ionizing Radiation" No. 15/98-BP dated 14.01.1998.
12. Code of Civil Protection of Ukraine No. 5403-VI dated 02.10.2012.
13. Law of Ukraine "On Objects of Increased Danger" No. 2245-III dated January 18, 2001.
14. Law of Ukraine "On Approval of the National Targeted Social Program for Combating HIV/AIDS for 2014-2018" No. 1708-VII dated October 20, 2014.
15. Law of Ukraine "On combating the spread of diseases caused by the human immunodeficiency virus (HIV) and legal and social protection of people living with HIV" No. 1972-XII dated 12.12.91.
16. Law of Ukraine "On Prevention of Tuberculosis" No. 2586-III dated 07/05/2001.
17. Resolution of the CMU "Procedure for investigating and keeping records of accidents, occupational diseases and accidents at work" No. 1232 dated 30.11.2011.
18. CMU Resolution No. 1662 dated November 8, 2000 "On Approval of the List of Occupational Diseases."
19. Resolution of the CMU No. 442 of 01.08.92 "On the Procedure for Certification of Workplaces by Working Conditions"
20. Resolution of the CMU No. 559 dated 23.05.01 "On approval of the list of professions, industries and organizations whose employees are subject to mandatory preventive medical examinations, the procedure for conducting these examinations and issuing personal medical books."

Informational recourses

1. file:///E:/%D0%9F%D1%80%D0%B5%D0%B4%D0%BC%D0%B5%D1%82%D0%B8/%D0%9E%D1%85%D0%BE%D1%80%D0%BE%D0%BD%D0%B0%20%D0%BF%D1%80%D0%B0%D1%86%D1%96/Okhorona_pratsi_v_haluzi.pdf

Results of the further review of the syllabus

The syllabus was re-approved on 20__ / 20__ academic year unchanged; with changes (Appendix__).

(underline the correct variant)

Minutes №. __ of «__» _____ 20__ Head of the Department _____
(Signature) (Surname, initials)

The syllabus was re-approved on 20__ / 20__ academic year unchanged; with changes (Appendix__).

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