

MINISTRY OF HEALTH  
KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of Hygiene and Ecology No. 2

The academic year 2021–2022

**SYLLABUS OF THE EDUCATIONAL COMPONENT**

«OCCUPATIONAL HEALTH IN THE FIELD OF MEDICINE»  
(name of educational component)

**Educational program for training specialists of the second (master's)  
level of higher education training in the branch of knowledge 22 "Healthcare"  
in specialty 221 "Dentistry"**

Normative or elective educational component Elective

Educational component format Full-time  
(full-time, mixed, remote)

Area of knowledge 22 "Health"  
(code and name of the field of knowledge)

Educational and professional program 221 "Dentistry"

The second (master's) level of higher education


Third year, full-time study

Syllabus of educational discipline is approved  
At the meeting of Department of Hygiene and  
Ecology No. 2

Approved by Methodical Commission of  
KhNMU on PublicHealth Issues

Record dated  
"30" August 2021 No. 7

Record dated  
"27" August 2021 No. 1

Acting Head of the Department  
 Ass.Prof. Sydorenko M.O.  
(signature) (name and initials)

Head  
 Prof. Ognev V.A.  
(signature) (name and initials)

" 30" August 2021

"27" August 2021

**SYLABUS DEVELOPERS:**

Doctor of Med. Sci., Prof. Zavgorodnii I.V.,  
Cand. of Med. Sci., Ass. Prof. Sydorenko M.O.,  
Cand. of Med. Sci., Assistant Lalyenko O.S.,  
Cand. of Med. Sci., Ass. Prof. Korobchanskyi P.O.

## DATA ON TEACHERS WHO TEACH THE EDUCATIONAL COMPONENT

The name of the teacher	Position, academic title, scientific degree	Professional interests	Link to the teacher's profile
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**Intramural consultations:** schedule and venue according to the schedule of the department.

**Online consultations:** schedule and venue by prior arrangement with the teacher.

**Location:** classes are held in the department hygiene and ecology № 2 of KhNMU

## INTRODUCTION

**The syllabus of the discipline** «Occupational health in the field of medicine» is compiled in accordance with the educational-professional program 221 «Dentistry» and the Standard of Higher Education of Ukraine, the second (master's) level, field of knowledge 22 "Health", specialty 221 «Dentistry».

### **Description of the discipline (abstract)**

The syllabus of the discipline «Occupational safety in the field of medicine» designed for higher medical educational institutions of Ukraine in accordance with the requirements of the credit transfer system of the organization of the educational process ECTS, based on a combination of sectional learning technologies and credit assessment – units of measure student workload required for mastering the discipline or section. Study of the discipline «Occupational safety in the field of medicine» aims to familiarize students with the working conditions of health workers in modern conditions, with harmful and dangerous factors of the production environment in healthcare facilities, their influence on the physiological state of the organism of a working person. The work of medical workers is one of the most complex, stressful and responsible kinds of professional activities. Certain professional groups of medical workers have their own specific working conditions in their daily activities, which can cause morbidity, including occupational, contribute to fatigue and over fatigue, disability. The last decades are characterized by significant achievements of medical science and technology. Medical engineering and biotechnology are being further developed, various diagnostic, mostly computerized, systems, laser radiation, ultrasound and ionizing radiations are widely used in medical practice. Significantly increases the arsenal of drugs, primarily antibiotics, as well as detergents and disinfectants. In this regard, the content, nature and features of the work of both doctors and paramedics and support staff are changing quite seriously. Such changes, as a rule, lead to a significant increase in the level of nervous, psychical and intellectual stress. These are relatively new problems did not push to the background and such traditional problems of organizing the work of doctors, as an unfavorable environment for chemical, physical and biological factors, overcoming nosocomial infections, prevention of allergic reactions, etc.

So, study of the discipline «Occupational safety in the field of medicine» is relevant for the training of medical personnel, especially in the current conditions of reforming the higher education system on the background of Ukraine's European integration processes.

The syllabus is organized with the application of modern pedagogical principles of organization of the educational process of higher education.

**The subject of study of the discipline is:** harmful and dangerous factors of the production environment and the system of measures for protection and preservation of life and health of medical personnel.

Academic discipline refers to the compulsory subjects.

90 hours are assigned for studying the discipline, 3.0 ECTS credits (90 hours: classroom work - 20 hours, independent work - 50 hours, individual tasks - 10 hours.).

**Prerequisites.** The study of the discipline involves the prior mastering of credits in theory and practice of clinical disciplines in the context of assessing the effect of methods of diagnosis and prevention of diseases and their consequences, optimizing the patient's route, department, etc.; with epidemiology in the context of measurements of population processes and information collection plans.

**Post requisites.** The main provisions of the discipline should be applied in the study of the disciplines of health care organization in the context of non-communicable disease statistics; social medicine in the context of measurements of population and individual health, features of registration of health-related events; medical informatics and computer technology.

**Link to the page of the discipline in MOODLE –**

<http://31.128.79.157:8083/course/view.php?id=167>

### **1. PURPOSE AND TASKS OF THE COURSE**

**1.1. The aim of the course** is formation of future specialists' knowledge, skills and competencies to ensure effective management of labor protection in the medical field and the creation

of favorable working conditions and occupational safety in the industry in accordance with applicable laws and regulations.

**1.2. The main objectives of the discipline** is the acquisition by students of competencies in accordance with the general and professional competencies of the educational-professional program "Medicine" of the second level of higher education in the specialty 221 Medicine (discipline "Dentistry").

**1.3. Competences and learning outcomes**, the formation of which is facilitated by the discipline (relationship with the normative content of training of higher education, formulated in terms of learning outcomes in the EPP and Standard).

**1.3.1.** The study of the discipline provides students with the acquisition of **competencies:**

**Integral competencies:** the ability to solve typical and complex specialized problems and practical problems in a professional health care activity, or in learning process that involves research and / or innovation and is characterized by the complexity and uncertainty of conditions and requirements.

**General competencies:**

- Ability to abstract thinking;
- Analysis and synthesis, ability to learn and be modernly trained;
- 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 an informed decision; work in a team;
- Interpersonal skills;
- Ability to communicate in the state language both orally and in writing;
- Ability to communicate in a foreign language;
- Skills of using information and communication technologies;
- Determination and persistence in the tasks and responsibilities;
- Ability to act socially responsibly and consciously;
- The desire to preserve the environment.

**Special (professional, subject) competencies:**

- Ability to determine the required list of laboratory and instrumental studies and evaluate their results;
- Ability to plan and conduct sanitary, preventive and anti-epidemic measures, including infectious diseases;
- Ability to assess the impact of the environment, socio-economic and biological determinants on the health of the individual, family, population.

**1.3.2.** The study of the discipline provides students with the acquisition of the following program learning outcomes:

PLO 1 - to have general and special fundamental and professionally-oriented knowledge, skills, abilities, competencies necessary to perform typical professional tasks related to activities in the medical field in the relevant position

PLO 5 - evaluate the results of surveys, physical examinations, laboratory and instrumental research data

PLO 11 - to carry out sanitary and hygienic and preventive measures

PLO 16 - to assess the impact of the environment on the health of the population

PLO 18 - to assess the state of human health and provide its support taking into account the impact of the environment and other health factors

PLO 19 - to assess the sanitary and hygienic condition of the environment in order to determine the sanitary and hygienic and preventive measures

PLO 20 - apply the acquired knowledge about the existing health care system to optimize their own professional activities and participate in solving practical problems of the industry

**1.3.3.** The study of the discipline provides students with the following **social skills (Softskills):**

- communicativeness (implemented through: method of working in pairs and groups, brainstorming, method of self-presentation),
- teamwork (implemented through: project method, openwork tiles),
- conflict management (implemented through: dramatization method, game methods),
- time management (implemented through: project method, group work, training),
- leadership skills (implemented through: group work, project method, self-presentation method),
- sports development and effective recreation (implemented through: various types and forms of physical activity for active recreation and a healthy lifestyle),
- empathy (realized through: respect for the opinion and ethical considerations, appearance and behavior of other people),
- stress resistance (realized through: group work with representatives of other professional groups of different levels and ages in unforeseen circumstances and situations).

## 2. INFORMATIONAL VOLUME OF THE DISCIPLINE

Name of indicators	Field of knowledge, specialty, educational degree, EPP	Characteristics of the discipline
		<b>Full-time education</b>
Number of credits – 3	Training direction <u>22 «Health»</u> (code and name)	Full-time education Elective course
Total number of hours - 90	Specialty: <u>221 «Dentistry»</u> (Code and name)	<b>Year of preparation:</b> 3-rd
		<b>Semester</b> 5-6
		<b>Lectures</b> 10 hours
		<b>Practical, seminar</b> 20 hours
Hours for full-time form of study (or evening): classroom – 30 independent work of the student - 60	Educational qualification level: Master of Dentistry	<b>Лабораторії</b> -
		<b>Independent work</b> 50 hours
	EPP: " <u>Medicine</u> "	<b>Individual tasks:</b> 10 hours
		<b>Type of control:</b> credit

### 2.1 Description of the discipline

#### 2.2.1 Lectures

№	Theme names	Number of hours	Types of lectures
1	Legal and organizational bases of labor protection	2	Classroom / remote
2	Occupational hygiene and physiology, importance for creating safe working conditions	2	Classroom / remote
3	Occupational hazards in the performance of the functional duties of dental professionals	2	Classroom / remote
4	Occupational health and safety in dental schools	2	Classroom / remote
5	Dangerous infectious diseases in the work of dental professionals	2	Classroom / remote
	Total	<b>10</b>	

**2.2.2 Seminars**

№	Theme names	Number of hours	Types of lectures
	Not provided by the curriculum		
	Total hours		

**2.2.3 Practical classes**

№	Theme names	Number of hours	Teaching methods	Forms of control
1.	Legal and organizational bases of labor protection		Verbal (discussion); visual (illustration, presentation material, video material); practical (independent work, work in pairs, work in groups)	oral examination (individual and frontal); written survey; test control; abstracts; self-control; report; declamation
2.	Organization of labor protection in medical institutions and institutions of higher medical education.		Verbal (discussion); visual (illustration, presentation material, video material); practical (independent work, work in pairs, work in groups)	oral examination (individual and frontal); written survey; test control; abstracts; self-control; report; declamation
3.	Occupational hygiene and physiology, importance for creating safe working conditions		Verbal (discussion); visual (illustration, presentation material, video material); practical (independent work, work in pairs, work in groups)	oral examination (individual and frontal); written survey; test control; abstracts; self-control; report; declamation
4.	Occupational hazards in the performance of the functional duties of dental professionals		Verbal (discussion); visual (illustration, presentation material, video material); practical (independent work, work in pairs, work in groups)	oral examination (individual and frontal); written survey; test control; abstracts; self-control; report; declamation
5.	Hygienic characteristics of working conditions and health status of dental professionals		Verbal (discussion); visual (illustration, presentation material, video material); practical (independent work, work in pairs, work	oral examination (individual and frontal); written survey; test control; abstracts; self-control; report;

			in groups)	declamation
6.	Accidents and accidents in dental medical institutions, their investigation and accounting		Verbal (discussion); visual (illustration, presentation material, video material); practical (independent work, work in pairs, work in groups)	oral examination (individual and frontal); written survey; test control; abstracts; self-control; report; declamation
7.	Occupational health and safety in dental schools		Verbal (discussion); visual (illustration, presentation material, video material); practical (independent work, work in pairs, work in groups)	oral examination (individual and frontal); written survey; test control; abstracts; self-control; report; declamation
8.	Fundamentals of industrial safety of medical workers of dental profile		Verbal (discussion); visual (illustration, presentation material, video material); practical (independent work, work in pairs, work in groups)	oral examination (individual and frontal); written survey; test control; abstracts; self-control; report; declamation
9.	Dangerous infectious diseases in the work of dental professionals		Verbal (discussion); visual (illustration, presentation material, video material); practical (independent work, work in pairs, work in groups)	oral examination (individual and frontal); written survey; test control; abstracts; self-control; report; declamation
10.	Occupational safety of medical personnel in separate structural subdivisions of dental medical institutions		Verbal (discussion); visual (illustration, presentation material, video material); practical (independent work, work in pairs, work in groups)	oral examination (individual and frontal); written survey; test control; abstracts; self-control; report; declamation
	Total hours	20		

#### 2.2.4. Laboratory classes

№	Theme names	Number of hours	Types of lectures
	Not provided by the curriculum		
	Total hours		



### 2.2.5. Independent work

№	Theme names	Number of hours	Teaching methods	Forms of control
1.	Preparation for practical classes..	15	visual (illustration, presentation material, video material); independent work, work in pairs, work in groups	written survey; test control; creative tasks; abstracts; annotations; report; declamation
2.	Preparation for practical classes..	15	visual (illustration, presentation material, video material); independent work, work in pairs, work in groups	written survey; test control; creative tasks; abstracts; annotations; report; declamation
3.	Preparation for practical classes..	20	visual (illustration, presentation material, video material); independent work, work in pairs, work in groups	written survey; test control; creative tasks; abstracts; annotations; report; declamation
4.	Individual work	10	visual (illustration, presentation material, video material); independent work, work in pairs, work in groups	written survey; test control; creative tasks; abstracts; annotations; report; declamation
	Total hours	70		

**Teaching methods.** Verbal (lecture, conversation); visual (illustration, presentation material, video material); practical (independent work, work in pairs, work in groups)

**Control methods:**

1. Oral control of mastering theoretical material (survey, discussion).
2. Written control (answers to questions, problem solving, test control).
3. Control of practical skills (solving situational problems, solving problem situations, providing practical recommendations).

When studying the discipline, the current and final semester control is used. Also, there is a mandatory control of the assimilation of educational material of the discipline, assigned to independent work.

*Current control (mastering of separate topics)*: is carried out in the form of oral questioning, testing, conversations of students on predetermined questions, in the form of performances of applicants for higher education with reports when discussing educational issues in practical classes.

In order to assess the independent work of students, an alternative option is offered (optional): traditional types of tasks: writing a test, abstract or creative types: preparation of a multimedia presentation, elaboration of educational literature (compilation of annotations, reviews, citations, abstracts).

*Final control* in the discipline is a mandatory form of control of academic achievement of higher education students. It is performed orally. The terms of the final semester control are set by the schedule of the educational process, and the amount of educational material that is submitted for the final semester control is determined by the program of the discipline.

### 3. EVALUATION CRITERIA

**3.1.** Evaluation of the success of education of students is carried out on the basis of the current "Instructions for evaluating the educational activities of students of KhNMU" order of KhNMU from 21.08.2021 № 181

Students' knowledge is assessed in all types of classes according to the following criteria:

1) "**excellent**" – corresponds to a high (creative) level of competence:

- The student shows special creative abilities, is able to acquire knowledge independently, without the help of the teacher finds and processes the necessary information, is able to use the acquired knowledge and skills for decision-making in unusual situations, convincingly argues answers, independently reveals own talents and inclinations;

2) "**good**" – the Student receives two levels of assessment depending on the number of points scored and corresponds to a sufficient (constructive-variable) level of competence:

- The student is fluent in the studied amount of material, applies it in practice, freely solves exercises and problems in standard situations, independently corrects mistakes, the number of which is insignificant;

- The student is able to compare, summarize, systematize information under the guidance of the teacher; as a whole to apply it independently in practice; control their own activities; to correct mistakes, among which there are significant ones, to choose arguments to confirm opinions;

3) "**satisfactory**" – the Student receives two levels of assessment depending on the number of points scored and corresponds to the average (reproductive) level of competence:

- The student reproduces a significant part of the theoretical material, shows knowledge and understanding of the basic provisions; with the help of the teacher can analyze the educational material, correct mistakes, among which there are a significant number of significant;

- The student has the study material at a level higher than the initial, a significant part of it is reproduced at the reproductive level;

4) "**unsatisfactory**" – corresponds to a low (receptive-productive) level of competence:

- The student has not mastered the material of the discipline, does not know the scientific facts, definitions, almost does not navigate in the original sources and recommended literature, there is no scientific thinking, practical skills are not formed.

The total number of rating points for the study of the discipline for the semester is calculated as the sum of the points obtained from the results of the current control and the points obtained from the results of the final semester control. The maximum amount of points for the semester is 200 points, the minimum – 120 points. Assessment of students is carried out in accordance with the "Instructions for assessing the educational activities of students in the European credit transfer system for the organization of the educational process at KhNMU."

The *current educational activity of students* (hereinafter – **CEA**) is controlled by the teacher of the academic group, after students master each topic of the discipline and grades are set using a 4-point (national) system. At the end of the semester, the teacher automatically receives the average grade (to the nearest hundredth) for **CEA** using an electronic journal of the ASU system.

For the discipline, the study of which is completed in the current semester and the form of its control is a differential test, the average score on **CEA** by the teacher of the department is translated into a 200-point scale.

Assessment of current learning activities (CEA)

Recalculation of the average grade for current activities in a multi-point scale is carried out in accordance with the "Instructions for assessing the educational activities of applicants for higher education at the Kharkiv National Medical University" (Table 2).

When assessing the mastery of each subject of the discipline, the student is graded according to the traditional 4-point system: "excellent", "good", "satisfactory" and "unsatisfactory".

The final score for the current learning activity (PND) is defined as the arithmetic mean of traditional grades for each lesson, rounded to 2 decimal places and listed in a multi-point scale according to Table 2.

Table2

**Recalculation of the average score for current activities  
into a multi - point scale (for disciplines ending in credit)**

4-pointscale	200-pointscale	4-pointscale	200-pointscale	4-pointscale	200-pointscale
5	200	4.22-4,23	169	3.45-3,46	138
4.97-4,99	199	4.19-4,21	168	3.42-3,44	137
4.95-4,96	198	4.17-4,18	167	3.4-3,41	136
4.92-4,94	197	4.14-4,16	166	3.37-3,39	135
4.9-4,91	196	4.12-4,13	165	3.35-3,36	134
4.87-4,89	195	4.09-4,11	164	3.32-3,34	133
4.85-4,86	194	4.07-4,08	163	3.3-3,31	132
4.82-4,84	193	4.04-4,06	162	3.27-3,29	131
4.8-4,81	192	4.02-4,03	161	3.25-3,26	130
4.77-4,79	191	3.99-4,01	160	3.22-3,24	129
4.75-4,76	190	3.97-3,98	159	3.2-3,21	128
4.72-4,74	189	3.94-3,96	158	3.17-3,19	127
4.7-4,71	188	3.92-3,93	157	3.15-3,16	126
4.67-4,69	187	3.89-3,91	156	3.12-3,14	125
4.65-4,66	186	3.87-3,88	155	3.1-3,11	124
4.62-4,64	185	3.84-3,86	154	3.07-3,09	123
4.6-4,61	184	3.82-3,83	153	3.05-3,06	122
4.57-4,59	183	3.79-3,81	152	3.02-3,04	121
4.54-4,56	182	3.77-3,78	151	3-3,01	120
4.52-4,53	181	3.74-3,76	150	<b>Under 3</b>	<b>Insufficient</b>
4.5-4,51	180	3.72-3,73	149		
4.47-4,49	179	3.7-3,71	148		
4.45-4,46	178	3.67-3,69	147		
4.42-4,44	177	3.65-3,66	146		
4.4-4,41	176	3.62-3,64	145		
4.37-4,39	175	3.6-3,61	144		
4.35-4,36	174	3.57-3,59	143		
4.32-4,34	173	3.55-3,56	142		
4.3-4,31	172	3.52-3,54	141		
4.27-4,29	171	3.5-3,51	140		
4.24-4,26	170	3.47-3,49	139		

Discipline assessment technology (Table from the "Instructions for assessing the educational activities of students").

**The test** (according to the "Instructions for assessing the educational activities of students...") is conducted by the teacher of the academic group in the last lesson of the discipline and involves taking into account the CEA (table) and checking the mastering of all topics in the discipline. The score is determined in points from 120 to 200 and marked "passed", "not passed".

Elimination of academic debt is carried out by self-study of theoretical material, followed by oral interviews, testing and discussion of the topic of missed classes with the teacher. In the case of a sufficient level of knowledge on the subject, academic debt is considered eliminated. Free practice is carried out within 30 days from the moment of missed class (without permission from the dean's office), if the term from the moment of missed class exceeds 30 days of practice is carried out only in case of permission to liquidate academic debt from the dean's office, taking into account discipline classes of which are carried out on a paid basis.

### 3.2. Test questions:

#### *Section 1. General issues of occupational safety.*

1. Basic terms and definitions in the field of occupational safety: occupational safety, labor conditions, harmful production factor, hazardous production factor, safe work conditions, workplace, safety equipment, etc.
2. Subjects and objects of occupational safety.
3. Current state of occupational safety in Ukraine and abroad.
4. General issues of occupational safety in medicine.
5. Legal bases of occupational safety (the Constitution of Ukraine, the Labor Code, the Law of Ukraine "On Occupational Safety", etc.).
6. Normative-Legal Acts on Occupational Safety (NLAOS): Definition, basic requirements and features. Structure of NLAOS. Register of NLAOS.
7. National Standards of Ukraine on Occupational Safety. System of Labor Safety Standards (SLSS). Sanitary, building norms, other national documents on occupational safety.
8. Labor safety acts in the organization, their composition and structure. Safety instructions. Working out and approval of occupational safety acts in the organization.
9. Responsibility of officials and workers for violation of occupational safety legislation.
10. Social partnership as a principle of legislative and normative-legal provision of occupational safety. Social Dialogue in the European Union.
11. International norms of social responsibility. Standard SA 8000 "Social Responsibility". International Standard ISO 26000 "Guidelines for Social Responsibility".
12. The European Union's legislation on occupational safety. EU Occupational safety Directives. Framework Directive 89/391 / EU "On introducing measures to improve the safety and occupational hygiene of workers".
13. Elements of the Occupational Safety Management System, international standard OHSAS 18001: 2007.
14. Labor Standards of the International Labor Organization. Conventions and Recommendations of the ILO. Major ILO Conventions on Occupational Safety.
15. International cooperation in the field of occupational safety. Main directions of cooperation. United Nations. World Health Organization. International Atomic Energy Agency. International Labor Organization. European Union.
16. Occupational safety as an integral part of social responsibility.
17. Public administration of occupational safety, state supervision and public control over occupational safety in Ukraine. The bodies of state supervision of occupational safety, their main powers and rights. Civil control over observance of legislation on occupational safety.
18. State Service of Ukraine on Labor, its structure and functions.
19. Risk-oriented approach in assessing the potential and actual danger of harmful effects of the factors of the industrial environment on human health.
20. Revealing, assessment and reducing the risks of hazardous events, quality management and the formation of safety culture.

21. Collective and labor contracts as a reflection of occupational safety legislation. Law of Ukraine "On Collective Contracts and Agreements" and its contents. Order of the Ministry of Labor and Social Policy of Ukraine "On Approval of the Form of an Employment Contract between Workers and the Individual". Conclusion of a labor agreement on the specific types of work and features of functional responsibilities. Regulation of occupational safety issues in a collective agreement. Hiring a contract.

22. Responsibility of officials and workers for violation of occupational safety legislation.

23. Sectoral Programs for Improving Safety, Occupational Health and Work Environment. Regulations on the organization of the system of management of occupational safety in the field of medicine. Order of Ministry of Health No. 268 dated September 30, 1994 "On the Occupational Safety Service of the Ministry of Health".

24. Structure, main functions and tasks of the management of occupational safety in medical institutions. Service of occupational safety of medical-preventive establishment (MPE), its structure, number, main tasks and functions. Rights and duties of workers of the occupational safety service.

25. Commission on Occupational Safety at Medical Institutions, main tasks and rights. Cabinets of industrial safety and occupational safety, main tasks and directions of work.

26. Planning of occupational safety measures. Revealing, assessment and reducing risks of hazardous events, quality management and safety culture. Registration and analysis of labor safety indices. Plans for localization and liquidation of emergency situations and accidents.

27. Principles of organization, types of training and control of knowledge on occupational safety. Instructing on occupational safety issues, their types. Promoting occupational safety.

28. Socio-economic effect of occupational safety of medical workers.

29. Order of the Ministry of Education and Science of Ukraine No. 563 dated 01.08.2001 "On Approval of the Regulations on the Organization of Work on the Occupational Safety of the Participants of the Educational Process in Establishments and Educational Institutions".

30. Hygiene and labor physiology - definitions, purpose, tasks, methods of research.

31. Classification of hazardous and harmful production factors.

32. Basic physiological signs of physical and mental labor. Physiological changes occurring in organs and systems of the human body during labor.

33. Human capacity for work, dynamics and reasons for its change during the working day.

34. The physiological essence of fatigue, existing theories and the modern understanding of the mechanism of its origin.

35. Ways of prevention of fatigue development. Technique of working out rational regimens of work and rest.

### *Section 2. Peculiarities of labor conditions in the field of medicine.*

36. Classification of work of medical specialists.

37. Psychophysiological hazardous and dangerous factors of production environment and their impact on the state of health of medical workers.

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47. Technique of investigation and registration of accidents at work.

48. Technique of investigation and registration of accidents of non-production character.

49. Traumatism, acute and chronic occupational diseases and poisonings in medicine, technique of their registration and investigation.

50. Measures of prevention of accidents, traumatism and occupational diseases of medical workers.

51. Social Insurance Fund against accidents at work and occupational diseases. Law of Ukraine “On mandatory state social insurance against an accident at work and occupational disease, which caused the loss of capacity for work”. Compensation of loss to the victim at the enterprise.

### *Section 3. Special issues of occupational safety in the field of medicine.*

52. Hygienic requirements for design and construction of medical-preventive establishments.

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55. Measures to reduce the adverse effects of physical factors on the body of health workers. Requirements to microclimate.

56. Measures to reduce the adverse effects of noise, vibration, ultrasound.

57. Requirements to the production illumination of medical workers' workplaces.

58. Requirements to ultraviolet radiation, electromagnetic fields of radio frequencies and laser radiation at workplaces of medical workers.

59. Requirements for video terminals and personal computers.

60. Requirements for ionizing radiation of medical and pharmaceutical workers.

61. Measures to reduce the adverse effects of chemical agents on the body of health care workers. Ways to prevent the air pollution of the working area by harmful chemicals.

62. Measures to prevent the harmful effects of biological factors. Sanitary and anti-epidemic regimen of the hospital.

63. Hygienic education and sanitary education.

64. Requirements for personal protective equipment and working clothes for healthcare workers.

65. Organization of air exchange in the premises of the MPE, ventilation.

66. Occupational safety of medical personnel in separate structural subdivisions of MPE (operational unit, radiodiagnostic units, physiotherapy offices, pathologic and anatomical departments and morgues, etc.), the main regulatory documents regulating these issues.

67. Fundamentals of occupational safety in the pharmaceutical industry.

68. Hours of work for healthcare workers and institutions.

69. Occupational safety at higher medical schools.

70. Guarantees of workers' rights to occupational safety, benefits and compensation for serious and harmful working conditions. Obligations of workers regarding compliance with the requirements of normative legal acts on occupational safety.

71. Occupational safety for women, minors, senior citizens and people with disabilities, the main regulatory documents regulating these issues.

72. Medical examinations of medical workers. The main provisions of the Order of the Ministry of Health of Ukraine No. 246 dated May 21, 2007 "On Approval of the Procedure for conducting medical examinations of certain categories of workers".

73. Prevention of nosocomial infections as a component of occupational safety in medicine.

74. The notion of dangerous infectious diseases.

75. HIV and AIDS in the practice of a doctor. Possible ways of entering biological material from HIV-infected person into the body of a medical worker. The notion of a "work accident" and an emergency appeal to the AIDS Center / Institute of Infectious Diseases.

76. The main provisions of the Law of Ukraine "On combating the spread of diseases caused by the human immunodeficiency virus (HIV), and the legal and social protection of people living with HIV" and the Law of Ukraine "On approval of the National Targeted Social Program on HIV / AIDS Response for 2014-2018" No. 1708-VII dated 10/20/2014.

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82. Colors, security signs and signal markup.

83. General safety requirements for process equipment and processes in MPE. Safety during operation of pressure and cryogenic systems.

84. Electrical safety. Classification of premises by the degree of danger of electric shock.

85. Conditions of human defeat by electric current. Safe operation of electrical installations: electric tools and measures.

86. Fundamentals of fire safety. State Fire Surveillance. Fire prevention in the design and maintenance of MPE and medical equipment.

87. Indicators of explosion and fire properties of materials and substances. Categories of premises for explosion and fire safety. Classification of explosive and fire hazardous premises and zones. Fire resistance of building structures and materials.

88. Basic means and measures for the provision of fire safety of the production facility. Fire alarm. Means of fire extinguishing.

89. Staff actions in the event of a fire. Ensuring safe evacuation of personnel. Provision and control the fire safety of industrial facilities. Training on the fire safety rules of MPE workers.

### **3.3. Control questions:**

*Section 1. General issues of occupational safety.*

1. Basic terms and definitions in the field of occupational safety: occupational safety, labor conditions, harmful production factor, hazardous production factor, safe work conditions, workplace, safety equipment, etc.
2. Subjects and objects of occupational safety.
3. Current state of occupational safety in Ukraine and abroad.
4. General issues of occupational safety in medicine.
5. Legal bases of occupational safety (the Constitution of Ukraine, the Labor Code, the Law of Ukraine "On Occupational Safety", etc.).
6. Normative-Legal Acts on Occupational Safety (NLAOS): Definition, basic requirements and features. Structure of NLAOS. Register of NLAOS.
7. National Standards of Ukraine on Occupational Safety. System of Labor Safety Standards (SLSS). Sanitary, building norms, other national documents on occupational safety.
8. Labor safety acts in the organization, their composition and structure. Safety instructions. Working out and approval of occupational safety acts in the organization.
9. Responsibility of officials and workers for violation of occupational safety legislation.
10. Social partnership as a principle of legislative and normative-legal provision of occupational safety. Social Dialogue in the European Union.
11. International norms of social responsibility. Standard SA 8000 "Social Responsibility". International Standard ISO 26000 "Guidelines for Social Responsibility".
12. The European Union's legislation on occupational safety. EU Occupational safety Directives. Framework Directive 89/391 / EU "On introducing measures to improve the safety and occupational hygiene of workers".
13. Elements of the Occupational Safety Management System, international standard OHSAS 18001: 2007.
14. Labor Standards of the International Labor Organization. Conventions and Recommendations of the ILO. Major ILO Conventions on Occupational Safety.
15. International cooperation in the field of occupational safety. Main directions of cooperation. United Nations. World Health Organization. International Atomic Energy Agency. International Labor Organization. European Union.
16. Occupational safety as an integral part of social responsibility.
17. Public administration of occupational safety, state supervision and public control over occupational safety in Ukraine. The bodies of state supervision of occupational safety, their main powers and rights. Civil control over observance of legislation on occupational safety.
18. State Service of Ukraine on Labor, its structure and functions.
19. Risk-oriented approach in assessing the potential and actual danger of harmful effects of the factors of the industrial environment on human health.
20. Revealing, assessment and reducing the risks of hazardous events, quality management and the formation of safety culture.
21. Collective and labor contracts as a reflection of occupational safety legislation. Law of Ukraine "On Collective Contracts and Agreements" and its contents. Order of the Ministry of Labor and Social Policy of Ukraine "On Approval of the Form of an Employment Contract between Workers and the Individual". Conclusion of a labor agreement on the specific types of work and features of functional responsibilities. Regulation of occupational safety issues in a collective agreement. Hiring a contract.
22. Responsibility of officials and workers for violation of occupational safety legislation.
23. Sectoral Programs for Improving Safety, Occupational Health and Work Environment. Regulations on the organization of the system of management of occupational safety in the field of medicine. Order of Ministry of Health No. 268 dated September 30, 1994 "On the Occupational Safety Service of the Ministry of Health".



24. Structure, main functions and tasks of the management of occupational safety in medical institutions. Service of occupational safety of medical-preventive establishment (MPE), its structure, number, main tasks and functions. Rights and duties of workers of the occupational safety service.

25. Commission on Occupational Safety at Medical Institutions, main tasks and rights. Cabinets of industrial safety and occupational safety, main tasks and directions of work.

26. Planning of occupational safety measures. Revealing, assessment and reducing risks of hazardous events, quality management and safety culture. Registration and analysis of labor safety indices. Plans for localization and liquidation of emergency situations and accidents.

27. Principles of organization, types of training and control of knowledge on occupational safety. Instructing on occupational safety issues, their types. Promoting occupational safety.

28. Socio-economic effect of occupational safety of medical workers.

29. Order of the Ministry of Education and Science of Ukraine No. 563 dated 01.08.2001 "On Approval of the Regulations on the Organization of Work on the Occupational Safety of the Participants of the Educational Process in Establishments and Educational Institutions".

30. Hygiene and labor physiology - definitions, purpose, tasks, methods of research.

31. Classification of hazardous and harmful production factors.

32. Basic physiological signs of physical and mental labor. Physiological changes occurring in organs and systems of the human body during labor.

33. Human capacity for work, dynamics and reasons for its change during the working day.

34. The physiological essence of fatigue, existing theories and the modern understanding of the mechanism of its origin.

35. Ways of prevention of fatigue development. Technique of working out rational regimens of work and rest.

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#### **Practical questions**

1. Apply the requirements of legislative and regulatory documents for the implementation of methods and means of occupational safety in medical institutions.

2. To apply the basic forms of organization and management of labor protection of medical workers of a dental profile.

3. Identify harmful and dangerous factors of the working environment in the workplace of medical workers of dental profile and give them a hygienic assessment.

4. Evaluate the organization of the workplace, furniture, medical equipment in the CHP.

5. Predict the possibility of occupational, industrial diseases, accidents, emergencies.

6. Carry out certification of workplaces under working conditions in terms of severity, intensity, harmfulness and danger of the production process.

7. To substantiate and develop the plan of measures for improvement of working conditions of medical workers of a dental profile and control of their efficiency.

8. To control the observance of the rules of personal hygiene and the use of personal protective equipment of medical workers of the dental profile.

9. Conduct investigations and records of accidents, acute and chronic occupational diseases, injuries in the medical field.
10. Organize fire and electrical safety measures.
11. Develop occupational safety instructions for dental professionals.
12. Conduct training and testing of knowledge on labor protection.

**3.4. Individual tasks** are not provided by the curriculum

**3.5. Other incentives** are not provided in the curriculum

**3.6. Rules for appealing the assessment**

Rules for appealing the assessment. The grade in the discipline can be appealed on the basis of the requirements of the "Regulations on the organization of the educational process in KhNMU" № 370 from 27.08.2019, supplemented in accordance with the order № 114 from 20.05.2020.

**4. DISCIPLINE POLICY**

Students can discuss different tasks, but their performance is strictly individual. Writing, use of various software tools, tips are not allowed. Students are not allowed to attend practical classes and attend without a medical form.

Students' participation in research and conferences on this topic is encouraged.

All students of KhNMU are protected by the Regulations on Prevention, Prevention and Settlement of Cases Related to Sexual Harassment and Discrimination at Kharkiv National Medical University, designed to define an effective mechanism for resolving conflict situations related to discrimination and sexual harassment. This Regulation is developed on the basis of the following normative legal acts of Ukraine: the Constitution of Ukraine; Law of Ukraine "On Education"; Law of Ukraine "On Higher Education"; Law of Ukraine "On Principles of Preventing and Combating Discrimination in Ukraine"; Law of Ukraine "On Ensuring Equal Rights and Opportunities for Women and Men"; Convention for the Protection of Human Rights and Fundamental Freedoms; Convention for the Suppression of Discrimination in Education; Convention on the Elimination of All Forms of Discrimination against Women; General Recommendation № 25 to paragraph 1 of Article 4 of the Convention on the Elimination of All Forms of Discrimination against Women; Cultural Rights; UN Committee on Economic, Social and Cultural Rights); Recommendations on Education in the Spirit of International Understanding, Cooperation and Peace and Education in the Spirit of Respect for Human Rights and Fundamental Freedoms (UNESCO); The concept of the State Social Program to ensure equal rights and opportunities for women and men for the period up to 2021. Kharkiv National Medical University provides education and work that is free from discrimination, sexual harassment, intimidation or exploitation. The University recognizes the importance of confidentiality. All persons responsible for the implementation of this policy (staff of deans' offices, faculties, institutes and the Center for Gender Education, members of the student government and ethics committee, vice-rector for research and teaching) are confidential about those who report or accuse of discrimination. or sexual harassment (except where the law requires disclosure and / or when disclosure by the University is necessary to protect the safety of others).

KhNMU creates a space of equal opportunities, free from discrimination of any national, racial or ethnic origin, sex, age, disability, religion, sexual orientation, gender, or marital status. All rights, privileges, programs and activities granted to students or staff of the University apply to all without exception, provided they are properly qualified. The anti-discrimination policy and the policy of counteracting sexual harassment of KhNMU are confirmed by the Code of Corporate Ethics and the Charter of KhNMU.

Students are expected to attend all lectures and workshops. If they missed classes, it is necessary to work it out (according to the schedule on the page of the department of the site of KhNMU).

Written and homework must be completed in a timely manner, and if students have questions, they can contact the teacher in person or by e-mail, which the teacher will provide in the first practical session.

Behavior in the audience:

During the lecture, students are recommended to keep a synopsis of the lesson and keep a sufficient level of silence. Asking questions to the lecturer is perfectly normal.

#### Practical training

Active participation during the discussion in the audience, students should be ready to understand the material in detail, ask questions, express their point of view, discuss.

During the discussion it is important:

- respect for colleagues,
- tolerance for others and their experience,
- susceptibility and impartiality,
- the ability to disagree with the opinion, but to respect the identity of the opponent (s),
- careful argumentation of his opinion and the courage to change his position under the influence of evidence,
- self-expression, when a person avoids unnecessary generalizations, describes his feelings and formulates his wishes based on their own thoughts and emotions,
- Mandatory acquaintance with primary sources.

A creative approach in its various manifestations is welcome. Students are expected to be interested in participating in city, national and international conferences, competitions and other events in the subject profile.

It is important for students to follow the rules of good behavior at the university. These rules are common to all, they also apply to all faculty and staff, and are not fundamentally different from the generally accepted norms.

During classes it is allowed:

- leave the audience for a short time if necessary and with the permission of the teacher;
- to drink water;
- take photos of presentation slides;
- take an active part in the class.

Forbidden:

- eat (except for persons whose special medical condition requires another - in this case, medical confirmation is required);
- smoking, drinking alcohol and even low-alcohol beverages or drugs;
- use obscene language or use words that offend the honor and dignity of colleagues and faculty;
- gambling;
- damage the material and technical base of the university (damage inventory, equipment; furniture, walls, floors, litter the premises and territories);
- shouting, shouting or listening to loud music in classrooms and even in corridors during classes.

Use of electronic gadgets. Use electronic gadgets for games, correspondence on social networks (except for breaks), loud conversations, etc. You are not allowed to use a mobile phone, tablet or other electronic gadgets during classes for purposes other than the educational process.

The first lesson of the course will explain the basic principles of labor protection by conducting appropriate training. It is expected that everyone should know where the evacuation exit is closest to the audience, where the fire extinguisher is, how to use it, and so on.

### **5. ACADEMIC INTEGRITY**

The Department of Hygiene and Ecology № 2 maintains zero tolerance for plagiarism. Students are expected to constantly raise their awareness of academic writing. The first classes will provide information on what to consider plagiarism and how to properly conduct research and scientific research.

### **6. RECOMMENDED LITERATURE**

#### **Basic**

1. Охорона праці в медичній галузі : навч.-метод. посіб. / О.П. Яворовський, М.І. Веремей, В.І. Зенкіна та ін. – К. : ВСВ “Медицина”, 2017. – 208 с.
2. Безпека життєдіяльності, основи охорони праці: навч. посіб. / О.П. Яворовський,

В.М. Шевцова, В.І. Зенкіна та ін.; за заг. ред О.П. Яворовського. – К.: ВСВ “Медицина”, 2015. – 288 с.

3. Безпека життєдіяльності, основи охорони праці: Навчально-методичний посібник/ упор.: О.П. Яворовський, В.М. Шевцова, Г.А. Шкурко та ін.- Черкаси: видавець Чабаненко Ю.А., 2012. – 232 с.

#### **Additional**

4. Гігієна праці: Підручник /Ю.І. Кундієв, О.П. Яворовський, А.М. Шевченко та ін.; за ред. акад. НАН України, НАМН України, проф. Ю.І. Кундієва, чл-кор. НАМН України проф. О.П.Яворовського.- К.: ВСВ “Медицина”, 2011.- 904с.

5. Гігієна праці (методи досліджень та санітарно-епідеміологічний нагляд)/За ред..А.М.Шевченка, О.П.Яворовського. – Вінниця: Нова книга, 2005.

6. Охорона праці у фармацевтичній галузі: навч. посіб. /О.В.Жуковіна, О.І.Зайцев, О.І.Жуковін, Г.А.Грецька. –К.: Медицина, 2009, -432с.

7. Гігієна та охорона праці медичних працівників:навч.посібник /За ред. В.Ф.Москаленка, О.П.Яворовського. – К.: ВСВ «Медицина», 2009. – 176 с.

8. Свидовый В.И. Гигиена и охрана труда медицинских работников /В.И.Свидовый, Е.Е.Палишкина. – СПб ГМД им. И.И.Мечникова, 2006. -90с.

Конституція України. Основний закон від 28.06.1996.

### **7. INFORMATION RESOURCES**

Link to the page of the discipline in MOODLE –

<http://31.128.79.157:8083/course/view.php?id=167>

1. Ministry of Ecology and Natural Resources of Ukraine <http://www.menr.gov.ua/>

2. National Security and Defense Council of Ukraine <http://www.rnbo.gov.ua/>

3. Permanent Mission of Ukraine to the United Nations <http://ukraineun.org/>

4. World Health Organization <http://www.who.int/en/>

5. Centersfordiseasescontrolandprevention[www.cdc.gov](http://www.cdc.gov)

6. Public Health Center of the Ministry of Health of Ukraine <https://phc.org.ua/>

### **8. OTHER**

In order to simplify the procedure of liquidation of academic debt of students at the Department of Hygiene and Ecology № 2 created virtual google classroom with a permanent link:

- Permanent link to GoogleMeet: <https://meet.google.com/lookup/abzei5dw7v>
- to receive tests from English-speaking foreign students, a permanent link to GoogleMeet: <https://meet.google.com/lookup/fahq7gvvch>