

A syllabus of discipline "Hygiene and Ecology" individual profile course of choice "Surgery"

1. General information			
Name of the faculty	Faculty of foreign students		
Educational program (branch, specialty, higher education level, form of education)	22 Health Care, 222 Medicine, second (master's) higher education level, full time		
Academic year	2021-2022		
Name of the discipline, code (email	Hygiene and Ecology OB 3.2.		
address at Danilo Halytsky Lviv National Medical University)	https://new.meduniv.lviv.ua/kafedry/kafedra-gigiyeny-ta- profilaktychnoyi-toksykologiyi/		
Department (name, address, telephone, e-mail)	Department of hygiene and prophylactic toxicology FPGE Address Zelena str., 12, Lviv, Ukraine, 79010, phone: +38 (032) 276-28-22, <i>e-mail:</i> kaf_prophylactictox@meduniv.lviv.ua		
Head of the department (contact e- mail)	Ulyana B. Lototska-Dudyk, associate professor, PhD, chief of department of hygiene and prophylactic toxicology FPGE, <i>e-mail:</i> ulyanalot@gmail.com		
Year of study (year of study of	6th		
discipline)			
Semester	XI-XII		
Type of discipline / module	optional		
(required / optional)			
Tutors (names, names, degrees and titles of teachers who teachdiscipline, contact e- mail)	Ulyana B. Lototska-Dudyk, associate professor, PhD, chief of department of hygiene and prophylactic toxicology FPGE, <i>e-mail:</i> ulyanalot@gmail.com		
Erasmus yes / no (discipline availability for students at withinthe Erasmus + program)	No		
The person responsible for the syllabus (e-mail)	Ulyana B. Lototska-Dudyk, associate professor, PhD, <i>e-mail:</i> ulyanalot@gmail.com		
Number of ECTS credits	3,0 credits		
Number of hours (lectures / practical	hours – 90		
classes / self-educational work of	hours of practical classes – 40		
students)	hours of self-educational work of students – 50		
Language of teaching	English		
Consultation information	MISA system, VEB-site of the department, information stands of the department		
	Short summary of the course		
The discipline "Hygiene" is aimed at f	he formation of 6th year medical students Faculty of Knowledge to		

The discipline "Hygiene" is aimed at the formation of 6th year medical students Faculty of Knowledge to assess the impact of environmental factors on the body human, the ability to provide in the practice of the doctor preventive recommendations for maintaining and promoting patient health.

Discipline "Hygiene and Ecology" is necessary for doctors of medical profiles during performance of their professional activity for formation healthy lifestyle, prevention and diagnosis of diseases based on the study of the impact environmental factors on the human body and its health as sources of etiology risk factors for the occurrence and spread of diseases.

3. Purpose and goals of the course

1. The purpose of teaching the discipline "Hygiene and ecology" is the study of the theoretical

foundations of preventive medicine as a science, which is the basis of the preventive component of the professional worldview of the specialist in the field of "Medicine", mastering the necessary knowledge, skills, actions, goals, skills that meet the ultimate goals of the discipline to EPP "Medicine".

2. Final objectives of the subject discipline «Hygiene and ecology»

- Analyze the environment sate and its factors influence on population health.

- Master methods of hygienic assessment of the environment factors' influence on population health. Interpret main laws of hygiene and general patterns of connection between health with factors and conditions of ital activity.

- Substantiate hygienic measures concerning the infectious diseases prevention.

- Plan measures to provide the healthy lifestyle e, personal hygiene and their practical apply into public health.

- Plan organizational and subject measures concerning preventive and regular sanitary inspection.

- Approve plans of preventive measures with the development plan of territory, administrative and industrial units.

- Analyze the environment state based on the integrative assessment criteria of population health state.

- Substantiate the carrying out of the preventive measures.

3. **Competencies and Program learning results** wich provides the discipline (general and special competences):

General Competences (GC):

- Ability to abstract thinking, analysis and synthesis (GC-1);
- Ability to learn and master modern knowledge (GC-2);
- Ability to apply knowledge in practical situations (GC-3);
- Knowledge and understanding of the subject area and understanding of professional activity (GC-4);
- Ability to adapt and act in a new situation (GC-5);
- Ability to make informed decisions (GC-6);
- Ability to work in a team (GC-7);
- Interpersonal skills (GC-8);
- Ability to communicate in the state language both orally and in writing (GC-9);
- Ability to communicate in a foreign language (GC-10);
- Skills of using information and communication technologies (GC-11);
- Certainty and persistence in terms of tasks and responsibilities (GC-12);
- Ability to act socially responsibly and consciously (GC-13);
- The desire to preserve the environment (GC-14);
- Ability to act on the basis of ethical considerations (motives) (GC-15).

Special (professional, subject) competencies:

- Ability to recommend laboratory-and instrumental examinations and estimation of their results (SC-2);
- Ability to determine the necessary mode of work and rest in the treatment of diseases (SC-4);
- Ability to determine the nature of nutrition in the treatment of diseases (SC-5);
- Ability to carry out sanitary-hygienic and preventive measures (SC-13);
- Ability to conduct epidemiological and medical and statistical health research population; processing of state, social, economic and medical information (SC-18);
- Ability to assess the impact of the environment, socio-economic and biological determinants on the health of an individual, family, and population (SC-19);

Program learning results

Identify negative environmental factors; analyze the state of health of a certain contingent; determine the relationship between the state of the environment and the state of health of a particular contingent; develop preventive measures based on data on the relationship between the state of the environment and the state of health of a particular contingent. Carry out the analysis of morbidity of the population, revealing 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, population; adhere to a

healthy lifestyle, use the techniques of self-regulation and self-control.

4. Prerequisites for the course

In accordance with the academic curriculum of the discipline "Hygiene and Ecology" a student must acquire knowledge of basic disciplines: philosophy, bioethics, medical biology, medical informatics, biomedical physics, general chemistry and biochemistry, normal and pathological anatomy, normal and pathological physiology, microbiology, virology and immunology, epidemiology, internal medicine, radiation medicine, social medicine, health care organization and integrates with these disciplines.

5. Program results of training

PLR 4 - Determine the required mode of work and rest at the treatment of the disease.

PLR 5 - Determine the necessary therapeutic nutrition at the treatment of the disease.

PLR 12 - To form among the fixed contingent population dispensary groups of patients; groups healthy people who require dispensary supervision. Carry out system of primary prevention measures within primary health care.

PLR 18 - Identify negative environmental factors environment; analyze the state of health of the population; determine the relationship between state of the environment and state of health of a certain contingent; elaborate preventive measures based on communication data between the state of the environment and the state contingent health. Perform analysis morbidity of the population, identifying groups risk, risk areas, time of risk, factors risk. Assess the impact of socio-economic and biological determinants on health of the individual, family, population.

PLR 22 - Follow a healthy lifestyle, use the techniques of self-regulation and self-control

List of learning results				
Learning results code	The scope of the learning results	Reference to the code of the competence matrix		
The code is created when the syllabus is filling (category: Kn - Knowledge, Sk- Skill, C-Competence (general), AR - Autonomy and Responsibility	Learning outcomes determine what the student must know, understand and be able to perform, after completing the discipline in accordance with the learning objectives. To enroll in the discipline, it is necessary to confirm the achievement of each learning result.	The symbol of the code of the program learning results in the Standard of Higher Education		
Kn-1 Sk- 1	Know the methods of analysis, synthesis and further modern learning Be able to analyze information, make informed	PLR 4, 5, 12, 18, 22		
GC-1 AR -1	decisions, be able to master modern knowledgeAbstract-thinking, analysis and synthesis capabilityTo be responsible for the timely acquiring of modern knowledge.			
Kn- 2	Know the current trends of medicine development and analyze them	PLR 12, 18, 22		
Sk-2	Be able to analyze professional information, make informed decisions, acquire modern knowledge			
GC -2 AR -2	Ability to learn and master modern knowledge To be responsible for the timely acquisition of modern knowledge.			
Kn- 3	Have specialized conceptual knowledge, acquired in the process of studying.	PLR 4, 5, 12, 18, 22		
Sk-3	Be able to solve difficult tasks and problems that arise in professional activity			
GC -3	Ability to apply the knowledge in practical situations]		
AR -3	To be responsible for decisions, made in difficult			

	conditions	
Kn- 4	Have profound knowledge in the structure of	PLR 4, 5, 12, 18, 22
	professional activity.	
Sk-4	Be able to carry out professional activities that need	-
	updating and integrating knowledge.	
GC -4	Knowledge and understanding of subject area and	-
00-4	professional activity	
AR -4		_
AK -4	To be responsible for professional development, the	
	ability to further professional training with a high level	
Kn- 5	of autonomy	DID 4 5 10 10 00
KII- J	To know types and ways of adaptation, principles of	PLK 4, 3, 12, 18, 22
<u><u>S1</u>, 5</u>	action in a new situation	_
Sk-5	To be able to use means of self-regulation, to be able to	
	adapt to new situations (circumstances) of life and	
	activity.	_
GC - 5	Ability to adapt and act in a new situation.	_
AR -5	To be responsible for, timely use ofmethods of self-	
W C	regulation	DID 4 5 10 10 00
Kn- 6	To know the tactics and strategis of communication,	PLR 4, 5, 12, 18, 22
Q1 (laws and methods of communicative behavior.	
Sk-6	To be able to make justified decisions, choose the ways	
	and strategies of communication to ensure effective	
~~ .	teamwork	_
GC - 6	Ability to make a justified decision	_
AR - 6	To be responsible for choice and tactics of	
	communication method	
Kn- 7	To know the tactics and strategies of communication,	PLR 12, 18
	laws and methods of communicative behavior.	
Sk-7	To choose the ways and strategies of communication to	
	ensure effective teamwork	
GC -7	Ability to work in a team	
AR -7	To be responsible for choice and tactics of	
	communication method	
Kn- 8	To know the laws and ways of intepersonal interaction	PLR 12, 18
Sk-8	To choose the ways and strategies of communication	
	for interpersonal interaction	
GC -8	Skills of Interpersonal interaction	
AR -8	To be responsible for choice and tactics of	
	communication method	
Kn- 9	Have a perfect knowledge of the state language	PLR 4, 5, 12, 18
Sk-9	To be able to use the state language, both orally and	
	writing	
GC -9	Ability to communicate, using the state language both	
	orally and writing.	
AR -9	To be responsible for free possession of the state	-
	language, for the development of professional	
	knowledge	
Kn- 10	Have basic knowledge of a foreign language	PLR 4, 5, 12, 18
Sk-10	Able to communicate a foreign language	
GC -10	The ability to communicate using foreign language	1
AR -10	To be responsible for the development of professional	1
	knowledge with the use of foreign language.	
Kn- 11	To possess profound knowledge in the field of	PLR 5, 12, 18, 22
	informative and communicative technologies applied in	
	professional activities	
Sk-11	To be able to use informative and communicative	1
	technologies in the professional field, that need	
	updating and integrating the knowledge	
	updating and integrating the knowledge	1

GC -11	Skills of using of informative and communicative technologies	
AR -11	To be responsible for the development of professional knowledge and skills	
Kn- 12	Know the responsibilities and ways of fulfilling the tasks	PLR 5, 12, 18
Sk-12	To be able to identify goals and objectives to be persistet and conscientious in the performance of responsibilities	
GC -12	Awareness and perseverance concerning taken tasks and duties	
AR -12	To be responsible for the quality of fulfillment of the tasks	
Kn- 13	Know your social and civil rights and responsibilities	PLR 4, 5, 12, 18, 22
Sk-13	To form your civil consciousness, to be able to act in accordance with it	
GC -13	Ability to act socially relevant and deliberate	
AR -13	To be responsible for the own citizenship position and activity	-
Kn- 14	Know the problems of environmental protection and ways to preserve it.	PLR 18, 22
Sk- 14	Be able to form requirements for themselves and others to preserve the environment	
GC - 14	The desire to preserve the environment	
AR - 14	To be responsible for the implementation of	
	environmental protection measures within its competence.	
Kn- 15	Know the basics of ethics and deontology	PLR 4, 5, 12, 18
Sk- 15	To be able to use ethical and deontology norms and principles in professional activities	
GC - 15	Ability to act based on ethical ethical considerations	
AR - 15	To be responsible for the implementation of ethical and deontological norms and principles in professional	
Special Kn-2	activity Have specialized knowledge about human, his organs and systems, standard methods of laboratory and instrumental research	PLR 4, 5, 12, 18
Sk- 2	To be able to analyze the results of laboratory and instrumental examinations	-
SC-2	Ability to recommend laboratory-and instrumental examinations and estimation of their results	
AR -2	Be responsible for deciding on the results evaluation of laboratory and instrumental examinations	
Kn-4	Have specialized knowledge about human, his organs and algorithms and standard schemes for determining the regime of work and rest at treatment of the sick person	PLR 4, 5, 12, 18, 22
Sk- 4	To be able to determine the necessary regime of work and rest in the treatment of the disease	
SC-4	Ability to determine the necessary regime of work and recreation in the treatment of diseases.	
AR -4	To be responsible for the validity of the appointment of work and rest in the treatment of the disease	
Kn- 5	To have specialized knowledge about algorithms and standard schemes of nutrition in the treatment of diseases	PLR 4, 5, 12, 18
Sk- 5	To be able to determine the nutrition at the treatment of diseases	

SC- 5	Ability to determine the nature of nutrition in the	
SC- J	Ability to determine the nature of nutrition in the treatment of diseases	
AR - 5	Be responsible for the validity of the recommended	-
	nutrition at the treatment of the disease	
Kn- 13	To know the system of sanitary-hygienic and	PLR, 12, 18, 22
	preventive measures among the fixed contingent of the	1 LIX, 12, 10, 22
	population. To know methodical approaches for an	
	estimation of a condition of environment and existence	
	of the factors influencing a state of health of the	
	population in the given conditions. Know the principles	
	of nutrition, water supply, mode of activity and rest, the	
	formation of a favorable working environment, primary	
	prevention of diseases and injuries; principles and	
	methods of promoting a healthy lifestyle.	
Sk- 13	Have the skills to analyze the state of health of groups	
	and develop preventive measures. Have the skills to	
	compile an analytical report on the state of health of the	
	population depending on the factors of production and	
	the environment.	
SC-13	Ability to carry out sanitary-hygienic and preventive	
	measures.	
AR - 13	To be responsible for timely and high-quality measures	
	to assess the health of the population, rehabilitation and	
	improvement of the health of certain contingents,	
	improving the environment, promoting a healthy	
	lifestyle, primary prevention of diseases and injuries	
Kn- 18	Know the methods of epidemiological and medical-	PLR 4, 5, 12, 18, 22
	statistical research; requirements for diagnostic tests	
	that can be used for screening studies; risk indicators	
	and methods of their calculation. Know standard	
	methods, including modern computer information	
	technology, processing of state, social and medical	
~	information	-
Sk- 18	Have standard methods of descriptive, analytical,	
	epidemiological and medical-statistical research. Be	
	able to assess the dynamics and in comparison with the	
	average data of morbidity, including chronic non-	
	infection diseases, integrated health indicators. Have a	
	method of screening for important non-infection	
	diseases. Be able to calculate and assess indicators of individual and population rick of disease accurrence	
	individual and population risk of disease occurrence	
	and course. Have a method of forming risk groups. Be able to perform statistical processing of material and	
	analysis of information	
SC- 18	Ability to conduct epidemiological and medical and	1
50-10	statistical health research population; processing of	
	state, social, economic and medical information;	
AR - 18	To be responsible for the validity of the conclusions on	-
1 MX - 10	the state of health of the population; high-quality and	
	timely execution of statistical processing and analysis	
	of the received information	
Kn- 19	To know the methods of assessment the health of	PLR 18, 22
111-17	population; environmental factors that negatively affect	1 LIX 10, 22
	the health of population; methods of statistical analysis	
	and laboratory research, health assessment of certain	
	contingents, factors; measures to prevent the negative	
	- · · · ·	
	impact of environmental factors on the health of population. To know socio-economic and biological	

	1.	T	1 .1 1 0		
			d methods of prophylaxisto j		
			impact of socio-economic fact		
			population and its individual gro	•	
		and risk fa	ples of forming risk groups, risk	areas, time	
01 10				1	DID 4 5 10 10 00
			to assess the health of		PLR 4, 5, 12, 18, 22
			ental conditions and negative factor		
		1	Possess the methods of stat		
		•	analysis of health of different	•	
			s. Be able to form preventive means the relationship between the		
			n the relationship between the ent and the health status of certain		
1			pulation. Be able to calculate in	•	
			alth. Be able to assess the rela		
1		-	of socio-economic and biologica	-	
1			of the individual, family, and po		
			olan preventive measures to p		
			impact of socio-economic fact		
		•	opulation and its separate groups		
SC-19			assess the environmental imp	act of the	1
		environme	-	biological	
		determinat	nts on the health of the individ	÷	
		population	L	-	
AR - 19		To be resp	consible for timely conclusions re	garding the	
			us of population on the basis of		
		-	impact of environmental fact		
			and biological determinants, a		
			oduction of proposals for the imp	lementation	
		of appropr	iate preventive measures.		
	~ ~ ~		6. Course format and scope		
	Course format			ne course	
	ype of activity		Number of hours Number of gro		nber of groups
	Practical				
					1-8
Self-traini	ng work		50		1-8 1-8
	1		50 . Topics and content of the cour		1-8
Code of	ng work Topic		50	Learning	1-8
Code of the type	1		50 . Topics and content of the cour	Learning results	1-8
Code of the type of the	1		50 . Topics and content of the cour	Learning	1-8
Code of the type of the classes	Торіс	;	50 . Topics and content of the cour Content of the studying	Learning results code	1-8 g Teacher
Code of the type of the classes P-1	Topic	с I,	50 Topics and content of the cour Content of the studying Role of environmental facto	Learning results code	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin	l, nciples of	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto	Learning results code rs PLR 4, rs PLR 12,	1-8 g Teacher
Code of the type of the classes P-1	Topic Methodological methodical prin studying an	l, nciples of 1d risk	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease	Learning results code rs PLR 4, rs PLR 12, s. PLR 18,	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment	l, nciples of nd risk of	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica	Learning results code rs PLR 4, rs PLR 12, s. PLR 18, 1- PLR 22	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental	l, nciples of id risk of factors	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the	Learning results code rs PLR 4, rs PLR 12, s. PLR 18, PLR 22 ir	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p	l, nciples of id risk of factors population	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi	Learning results code rs PLR 4, rs PLR 12, s. PLR 18, 1- pLR 22 ir s.	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p health. I	l, nciples of id risk of factors population Preventive	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi Population health as an integr	Learning results code PLR 4, PLR 12, S. PLR 18, PLR 22 ir s. al	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p health. I toxicology.	l, nciples of Id risk of factors population Preventive Principles	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi Population health as an integr criterion for environment estimatio	Learning results code rs PLR 4, rs PLR 12, s. PLR 18, PLR 22 ir s. al n.	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p health. I toxicology. and methods of	l, nciples of Id risk of factors population Preventive Principles f hygienic	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylax Population health as an integr criterion for environment estimatio The methods of establishment	Learning results code PLR 4, rs PLR 12, s. PLR 18, PLR 22 ir s. al n. of	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p health. I toxicology. and methods of normalization of	l, nciples of id risk of factors population Preventive Principles f hygienic of harmful	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi Population health as an integr criterion for environment estimatio The methods of establishment correlations between the state	Learning results code rs PLR 4, rs PLR 12, s. PLR 18, PLR 22 ir s. al n. of of	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p health. I toxicology. and methods of normalization of chemical subs	l, nciples of nd risk of factors population Preventive Principles f hygienic of harmful tances in	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi Population health as an integr criterion for environment estimatio The methods of establishment correlations between the state environment and health. Ris	Learning results code rs PLR 4, rs PLR 12, s. PLR 18, PLR 22 ir s. al n. of of sk	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p health. I toxicology. and methods of normalization of chemical subs different envir	l, nciples of id risk of factors population Preventive Principles f hygienic of harmful	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi Population health as an integr criterion for environment estimatio The methods of establishment correlations between the state environment and health. Ris assessment methodology. Problem	Learning results code PLR 4, PLR 12, PLR 18, PLR 22 rs. al n. of of sk ns	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p health. I toxicology. and methods of normalization of chemical subs	l, nciples of nd risk of factors population Preventive Principles f hygienic of harmful tances in	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi Population health as an integr criterion for environment estimatio The methods of establishment correlations between the state environment and health. Ris	Learning results code PLR 4, PLR 12, PLR 18, PLR 22 rs. al n. of of sk ns	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p health. I toxicology. and methods of normalization of chemical subs different envir	l, nciples of nd risk of factors population Preventive Principles f hygienic of harmful tances in	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi Population health as an integr criterion for environment estimatio The methods of establishment correlations between the state environment and health. Ris assessment methodology. Problem of application of risk assessme methodology in Ukraine.	Learning results code PLR 4, PLR 12, PLR 18, PLR 22 rs. al n. of of sk ns	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p health. I toxicology. and methods of normalization of chemical subs different envir	l, nciples of nd risk of factors population Preventive Principles f hygienic of harmful tances in	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi Population health as an integr criterion for environment estimatio The methods of establishment correlations between the state environment and health. Ris assessment methodology. Problem of application of risk assessme methodology in Ukraine.	Learning results code rs PLR 4, rs PLR 12, s. PLR 18, PLR 22 ir s. al n. of of sk ns nt	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p health. I toxicology. and methods of normalization of chemical subs different envir	l, nciples of nd risk of factors population Preventive Principles f hygienic of harmful tances in	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi Population health as an integr criterion for environment estimatio The methods of establishment correlations between the state environment and health. Rii assessment methodology. Problem of application of risk assessme methodology in Ukraine. Object and tasks	Learning results code rs PLR 4, rs PLR 12, s. PLR 18, PLR 22 rs. al n. of sk ns nt	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p health. I toxicology. and methods of normalization of chemical subs different envir	l, nciples of nd risk of factors population Preventive Principles f hygienic of harmful tances in	50 Topics and content of the court Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi Population health as an integr criterion for environment estimatio The methods of establishment correlations between the state environment and health. Ria assessment methodology. Problem of application of risk assessme methodology in Ukraine. Object and tasks prophylactic toxicology. Conce	Learning results code rs PLR 4, rs PLR 12, s. PLR 18, PLR 22 ir s. al n. of of sk nt of pt s,	1-8 g Teacher Ulyana B. Lototska-
Code of the type of the classes P-1 (practical	Topic Methodological methodical prin studying an assessment environmental influence on p health. I toxicology. and methods of normalization of chemical subs different envir	l, nciples of nd risk of factors population Preventive Principles f hygienic of harmful tances in	50 Topics and content of the cour Content of the studying Role of environmental facto as an etiologic factors and risk facto of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi Population health as an integr criterion for environment estimatio The methods of establishment correlations between the state environment and health. Ris assessment methodology. Problem of application of risk assessme methodology in Ukraine. Object and tasks prophylactic toxicology. Conce about toxicokinetics, toxicodynamic toxicometry. Toxicness an	Learning results code rs PLR 4, rs PLR 12, s. PLR 18, PLR 22 ir s. al n. of of sk nt of pt s,	1-8 g Teacher Ulyana B. Lototska-

	1		1	
		allowable concentrations (MAC) of		
		exogenous chemical matters,		
		acceptable daily intake (ADI) and		
		acceptable daily dose (ADD) in food		
		rations, features of the independent		
		hygienical standardization. Critical		
		indicator of harmfulness of pollutants		
		in different environments. Complex		
		standardization of pesticides. Types		
		of the combined action of matters.		
		Legislatively normative documents in		
		industry of the hygienical regulation.		
P-2	Hygiene of water and	Hygienical indexes and norms	PLR 18	Ulyana B.
1 -2	water-supply, sanitary	of quality of drinking-water, them	1 LK 10	•
	protection of water	scientific ground. Determination of		Lototska-Dudyk
	objects and soil, cleaning	-		
		character and degree of contamination of water sourses and		
	of settlements.			
		ground of terms of its use for		
		economic-drinkable necessities.		
		Centralized and decentralize systems		
		water supply, charts of water-supply		
		line from superficial and		
		underground sources. Cleaning and		
		disinfection of water of water-supply		
		line. Areas of sanitary protecting of		
		water sourses.		
		Geochemical, geoendemic		
		description of soils. Sources of		
		contamination of soil in the		
		conditions of industrialization and		
		chemicalization of agriculture,		
		influence of contamination of soil on		
		a health and sanitary terms of life of		
		population. A role of soil is in an		
		origin and distribution of infectious		
		uninfectious etiology. Processes and		
		indexes of antenneifiertion of soil		
		indexes of autopurification of soil.		
		An estimation of the sanitary state of		
		An estimation of the sanitary state of soil according to chemical and		
		An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of		
		An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage		
		An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the		
		An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases,		
		An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil		
		An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of		
		An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water		
		An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water and sanitary protection of reservoirs.		
		An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water		
		An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water and sanitary protection of reservoirs.		
		An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water and sanitary protection of reservoirs. Features of utilization of solid and		
P-3	Hygienical aspects of	An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water and sanitary protection of reservoirs. Features of utilization of solid and liquid waste of infectious, surgical and other departments of MPE.	PLR 4	Ulyana B.
P-3	Hygienical aspects of planning and	An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water and sanitary protection of reservoirs. Features of utilization of solid and liquid waste of infectious, surgical and other departments of MPE.	PLR 4	Ulyana B. Lototska-Dudyk
P-3	planning and	An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water and sanitary protection of reservoirs. Features of utilization of solid and liquid waste of infectious, surgical and other departments of MPE. Sanitary and hygenic	PLR 4	Ulyana B. Lototska-Dudyk
P-3	planning and exploitation,	An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water and sanitary protection of reservoirs. Features of utilization of solid and liquid waste of infectious, surgical and other departments of MPE. Sanitary and hygenic requirements to planning of lot land	PLR 4	•
P-3	planning and exploitation, prophylaxis of in-	An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water and sanitary protection of reservoirs. Features of utilization of solid and liquid waste of infectious, surgical and other departments of MPE. Sanitary and hygenic requirements to planning of lot land of MPE, therapeutic, surgical,	PLR 4	•
P-3	planning and exploitation, prophylaxis of in- hospital infection,	An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water and sanitary protection of reservoirs. Features of utilization of solid and liquid waste of infectious, surgical and other departments of MPE. Sanitary and hygenic requirements to planning of lot land of MPE, therapeutic, surgical, pediatric, obstetric, infectious,	PLR 4	•
P-3	planning and exploitation, prophylaxis of in-	An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water and sanitary protection of reservoirs. Features of utilization of solid and liquid waste of infectious, surgical and other departments of MPE. Sanitary and hygenic requirements to planning of lot land of MPE, therapeutic, surgical, pediatric, obstetric, infectious, admitting departments, operating block and policlinic. A problem of in-hospital infections in medicine,	PLR 4	-
P-3	planning and exploitation, prophylaxis of in- hospital infection,	An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water and sanitary protection of reservoirs. Features of utilization of solid and liquid waste of infectious, surgical and other departments of MPE. Sanitary and hygenic requirements to planning of lot land of MPE, therapeutic, surgical, pediatric, obstetric, infectious, admitting departments, operating block and policlinic. A problem of in-hospital infections in medicine, modern determinations of concept	PLR 4	-
P-3	planning and exploitation, prophylaxis of in- hospital infection, ultraviolet irradiation	An estimation of the sanitary state of soil according to chemical and biological indexes. Principles of cleaning of settlements. Sewage system of settlements, its role in the prophylaxis of infectious diseases, influence on the sanitary state of soil and conditions of habitation of population. Cleaning of waste water and sanitary protection of reservoirs. Features of utilization of solid and liquid waste of infectious, surgical and other departments of MPE. Sanitary and hygenic requirements to planning of lot land of MPE, therapeutic, surgical, pediatric, obstetric, infectious, admitting departments, operating block and policlinic. A problem of in-hospital infections in medicine,	PLR 4	-

	ano alexal a sti -	forme of in hearital infant'		1
	prophylactic	forms of in-hospital infections. Principles and measures of		
	establishments	prophylaxis of in-hospital infections		
		in permanent establishments of		
		different type. Facilities of protection		
		of personnel of MPE from in-hospital		
		infections. Bases of investigation of		
		flare-up of in-hospital infections in		
		MPE. Prevention of acute respiratory		
		disease COVID-19 caused by SARS-		
		CoV-2.		
		Diseases, related to the		
		deficiency and surplus of UV-		
		radiation. The use of natural and		
		artificial UV-radiation for the		
		primary and secondary prophylaxis		
		of illnesses.		
		Sources of ionizing radiation, which used in medical practice, them		
		quality and quantitative		
		characteristics. Basic principles of		
		radiation safety and their providing.		
		Radiation safety and antiradiation		
		protection of personnel and patients		
		at application of sources of ionizing		
		radiations in medical establishments.		
P-4	Nutrition in preventive	Nutriment functions and	PLR 5,	Ulyana B.
	medicine. A treatment-	factors that it provide. Types of	PLR 12	Lototska-Dudyk
	and-preventive and	biological effect of nutriment and		
	ecological-and-	types of nutrition. Value of diets		
	protective nutrition.	nutrients composition. The basic		
	The Sanitary-and-	hygienic requirements to diets		
	-	organization. The medical control for		
	hygienic control over a	nutrition, methods of studying of		
	clinical (dietary)	actual nutrition of population. The		
	nutrition	nutritional status, methods of		
		studying and assessment of caloric		
		and vitaminized components of		
		nutritional status.		
		Health-improving action of		
		nutriment and preventive nutrition of		
		humans from risk groups. Hygienic		
		principles of nutrition of pregnant		
		women and nursing mothers.		
		Nutrition in prevention of		
		occupational diseases. The basic		
		mechanisms of intoxication,		
		metabolism and detoxication of		
		xenobiotics in organism. The		
		hygienic characteristic and		
		assessment of a daily food product,		
		chemical composition and caloric		
		value of rations of a treatment-and-		
		preventive nutrition. Ecological-and-		
		protective nutrition, their principles		
		and hygienic meaning.		
		Parapharmacological action of		
		food. Principles of clinical nutrition.		
		Standard diets and their		
		individualization. Principles of the		
		organization clinical (dietary)		
		nutrition in hospitals and sanatorium-		
	•		•	•

		and-spa institutions. The sanitary-		
		and-hygienic control by clinical		
		(dietary) nutrition in care institutions.		
P-5	Legislative bases of	Bases of medical and	PLR 4,	Ulyana B.
1.5	the medical and	prevention providing of working	PLR 5,	Lototska-Dudyk
	prophylactic providing	people, abide by sanitary norms and	PLR 12,	LOIOISKa-Dudyk
		rules on enterprise and prophylaxis of	PLR 12, PLR 22	
	of workers. Hygienical	professional diseases and poisonings.	PLR 22	
	estimation of process	Groups of professional diseases.		
	of labor and factors of	Measures of prophylaxis of		
	industrial	professional pathology and labour		
	environment.	protection on production. Previous		
		and periodic inspections of workers,		
		investigation of cases of acute and		
		chronic professional diseases and		
		poisonings, organization of their		
		realization, accounting and current		
		paper work. List of medical contra-		
		indications to work with the harmful		
		and dangerous factors of industrial environment and labour process. An		
		order of establishing a connection		
		between diseases and working		
		conditions. Analysis of general,		
		professional morbidity and disability		
		of working people, indexes and		
		methods of their determination.		
		Accident prevention, productive		
		sanitation, sanitary education of		
		workers as measures of professional		
		diseases and poisonings prophylaxis.		
		Types of labour, their physiological		
		and hygienic description. Manual		
		labour, its weight, criteria of weight.		
		Mental work, its tension, criteria of		
		tension. Fatigue and overstrain,		
		explanation and scientific grounds of		
		their development. Modern principles		
		and criteria of hygienical estimation of labour, classes of labour after the		
		degree of weight and tension,		
		harmfulness and ununconcern.		
		Methods of estimation of the modes		
		of labour and rest, degree of tension		
		of physiology functions of organism		
		in the process of labour. The system		
		of prophylactic measures and rational		
		organization of labour process.		
		Psychophysiology of professional		
		selection, diagnostics and		
		prophylaxis of mental overstrain.		
P-6	Hygienical value of	Basic criteria and indexes of	PLR 18	Ulyana B.
	contamination of	contamination of atmospheric air, air		Lototska-Dudyk
	atmospheric air and	of living and public buildings.		_ototota Dudyn
	physical factors in	Influence of atmospheric		
	settlements. Hygiene	contaminations on a health of		
	.0	population. An estimation of quality		
	1 0	of atmospheric air and the method of study of influence of pollutants of		
	settlements	atmosphere on a health. The system		
		of prevention measures of		
l		· · · · · · · · · · · · · · · · · · ·		(

		husiania conditions of nunils' star in		
		hygienic conditions of pupils' stay in the schoolhouse. Criteria of readiness		
		of child to studying at school:		
		morphogenetic, psychological, social.		
P-8	The encoding of		PLR 18	Lilevene D
P-8	The organization of	Determination and classification of emergencies, their	PLK 18	Ulyana B.
	sanitary inspection on	influence on the sanitary-hygienic		Lototska-Dudyk
	temporary placing	terms of dwelling of population and		
	feeding and water-	labour conditions of the rescue units.		
	supplying of the rescue	International and national		
	units and population in	organizational structures for		
	emergency situations.	liquidation of medical consequences		
	.	of emergencies. Basic principles of		
	The forming of	organization of the sanitary-hygienic		
	radiation load and	and disease providing, temporal		
	hygienic aspects of	placing of a victim of population and		
	residence of	rescuers, during emergency,		
	population on	principles of prognostication medical		
	territories which were	hygienic consequences of		
	exposed to the	emergencies. The hygienic setting of		
	radioactive	norms is at emergency contamination		
	contamination	of environment.		
	contamination	Principles and forms of		
		organization of feed and water-		
		supply of the rescue forming and population during emergencies.		
		Organization of feed and water-		
		supply in emergencies under the		
		medical and sanitary inspection.		
		Natural radiation background		
		and its components. Hygienic		
		characteristic of radioactive		
		contamination of environment as a		
		result of failure on CNPP,		
		characteristic of main dose-		
		constituent radionuclides, ways of		
		contamination of environment		
		objects by them, radiation		
		characteristic of natural γ- background, soil, drinking-water,		
		foodstuffs, their role in forming of		
		the radiation load of population.		
		Principles of estimation of results of		
		radioactivity measuring of		
		environmental objects. Monitoring of		
		population irradiation, its		
		components. Principles and criteria		
		of zoning, legal status of territories		
		which were exposed to the		
		radioactive contamination as a result		
		of the Chornobyl catastrophe.		
		Hygienical aspects of way of life,		
		nutrition, labour and rest of		
		population who live on territories		
		with the heightened levels of radioactive contamination. Ways of		
		decline of doses of external and		
		internal irradiation of population.		
		Principles of radioprotective feeding		
		and measures of its realization.		
		Hygienic regulations of irradiation of		
		emergency personnel and population		
		during liquidation of consequences of		
		radiation failure.		
SW-1	Hygienical estimation	The communication of	PLR 18	Ulyana B.
		•		• · · ·

(Salf	of notional and	acology and hygiana Disambara its		Latataka Dud-1-
(Self-	of natural and	ecology and hygiene. Biosphere, its structure, the general laws of		Lototska-Dudyk
training	anthropogenic	influence of denatured biospheres on		
work)	components of	population health (hygiene laws).		
	biosphere influence on	Modern problems and tasks of		
	a health man and	environmental protection.		
	population. Scientific	The peculiarities of influence		
	bases of medical	of natural factors of environment on		
	biorhythmology and	population health. Medical		
	chronohygiene	classifications of weather. A		
		technique of mediko-meteorological		
		forecasting. Preventive meagers		
		(permanent, seasonal, immediate) of heliometeorotropic reactions at the		
		healthy and sick person. The general		
		and applied classifications of a		
		climate. Preventive maintenance		
		climate depended reactions. Structure		
		and the organization of service of		
		supervision of climatic both weather		
		conditions and their forecasting.		
		Biological rhythms, their		
		classification, the basic		
		characteristics, their influence on		
		health of the person. Studing and calculation of biological rhythms of		
		the person. Concept about		
		desynchronozes, the kinds of		
		desynchronozes. Chronohygiene as		
		the preventive maintenance basis of		
		desynchronozes. Studing of the types		
		of daily working capacity of the		
		person. Biorytmology principles of		
		the rational organization of daily		
CIVI 2		activity of the person.	DID 4	
SW-2	A hygienical	Unfavorable factors of in-	PLR 4,	Ulyana B.
	estimation of terms of	hospital environment of different subsections of hospitals. Hygienical	PLR 5,	Lototska-Dudyk
	stay of patients in	norms of microclimate, air	PLR 12	
	medical	environment, ventilation, natural and		
	establishments.	artificial illumination of different		
	Features of	subsections of hospitals. Chart of		
	antiradiation	sanitary-hygenic inspection of		
	protection of personnel	hospital.		
	and patients in	Methods of application of		
	roentgenologic and	nonradionuclide and radionuclide		
	radiological	sources of ionizing radiations in CI with a diagnostic and medical aim.		
	departments	Structure of radiological department		
	acpartments	of hospital. Features of radiation		
		danger and antiradiation protection		
		during realization of teletherapy and		
		contact radiotherapy by means of		
		bare and sealed sources of ionizing		
		radiations. Requirements to planning		
		of X-ray and radiological		
		departments, their sanitary and		
		technical, antiradiation equipment, types of duty. Regulations of		
		radiation safety of personnel of CI		
		and patients. Ways of decline of the		
		radiation load of personnel and		
		patients. Operating conditions,		
		personal hygiene and benefits of		
		personnel.		

SW-3	Food poisonings as	Food poisonings their	PLR 5	Ulvana B
SW-3	Food poisonings as hygienical problem. Method of investigation of cases of the food poisonings	Food poisonings, their definition, classification, modern views on classification. Alimentary toxicoinfections, bacterial and mycotoxicoses, definition, etiology, diagnostics, clinic, preventive principles. Food poisonings of non- microbial nature (by venenate plants and tissues of animals; foodstuff, which are toxicant under certain conditions; chemicals admixing). Food poisonings of an unknown etiology, a hypothesis of their occurrence, feature of clinic. Procedure of investigation of the	PLR 5, PLR 12, PLR 18	Ulyana B. Lototska-Dudyk
SW-4	Occupational hygiene	causes of food poisonings, participation and duties of doctors- hygienists and medical doctors. Order of investigation of food poisonings. Measures of liquidation and prevention of events of food poisonings. Hygienical value of planning, equipment, optimum mode of	PLR 4, PLR 22	Ulyana B.
	of medical workers in medical establishments. Prevention of acute respiratory disease COVID-19 caused by SARS-CoV-2.	exploitation of ME, as terms of creation of safe terms of labour of medical personnel. Professional harmfulness, hygiene and labour of medical personnel of different separations (therapeutic, surgical, infectious, reanimation, psyhoneurology, diagnostic, physical therapy and others like that) and laboratories of ME protection. Legislative and organizational measures are on a labour of medical personnel protection. Providing of favourable terms of labour, prophylaxis of intrahospital infections and professional diseases among a medical personnel, personal hygiene of medical personnel	PLR 22	Lototska-Dudyk
SW-5	Hygienical principles of rational organization of physical education and labour studies of children and teenagers. Scientific bases of conducting of medical- professional consultation	Means and forms of physical training in children's institutions. Hygienic principles of rational organisation of physical training of children and adolescents. The diseases predetermined by the irrational organization of physical training. Physiological-and-hygienic bases of estimation of physical training lesson. Physical training groups. Hygienic requirements to places for physical training. The medical control of organization of physical training lessons. Physiological-and-hygienic principles of rational making fit of children and adolescents. The basic means of making fit. Hygienic principles of the rational organization of labour study of pupils. Job counselling as a hygienic problem, its	PLR 4, PLR 18, PLR 22	Ulyana B. Lototska-Dudyk

			functions and components. Scientific bases of carrying out of medical- professional consultation, job counselling and professional selection. Methods of prognostication of professional progress of adolescents.		
SW-6	superv terms liquida	cting of sanitary ision after the of labour of tors of uences of rdinary	A value of the hygienical providing of terms of labour of the military and civil formings at emergencies. Principles of organization of sanitary supervision after the terms of labour of personnel of the rescue formings during emergency. Hygienical features of terms of labour at emergencies of different origin, their influence on a health and capacity of rescuers. Prophylactic measures of decline of negative action of harmful and dangerous terms and character of labour on a health and capacity of rescuers of emergency. Clinical and psyhophysiology methods of estimation of capacity and fatigue of rescuers. Classification of individual protective devices (IPD), that used at liquidation of consequences of emergency.	PLR 4 PLR 1 PLR 2	12, Lototska-Dudyk 18,
SW-7	Prepara practic	ation to al classes	Individual preparation to practical classes: theoretical preparation, calculation of tasks and tests.	PLR 2	22 Ulyana B. Lototska-Dudyk
 The following teaching methods are used to develop skills: 1. Verbal methods: conversation, story, explanation, work with literature. 2. Visual methods: illustration, demonstration, observation. 3. Practical methods: situational tasks, independent work, research work. 4. Interactive methods: discussion, work in small groups, brainstorming, case method, business 					
Current oo	ntrol is		8. Verification of learning results	hoolz th	a assimilation of students!
Current control is carried out during the training sessions and aims to check the assimilation of students' advectional material (it is pagagary to describe the forms of surrent control during training sessions)					
educational material (it is necessary to describe the forms of current control during training sessions). Forms of assessment of current educational activities should be standardized and include control of theoretical and practical training. For the final grade for the current educational activity a 4-th grade (national) scale is used All types of work are considered in this case. The student should get an estimate from each topic and then it will be converted into points according to 200-point scale.					
The student answers 10 MCQs (devoted to the topic of the lesson, format A). Right answers: for 10-9 MCQs = 5 points; by 8-7 MCQs = 4 points; 6-5 MCQs = 3 points; 4 or less MCQs = 0 points. Answers standardized questions, knowledge of which is necessary to understand the current topic. Demonstrates knowledge and skills of practical skills in accordance with the topic of the workshop. Solves a situational task according to the topic of the class. Criteria for evaluation of educational activities					
Learni results c	0	Code of the type of the classes	Verifying learning outcomes methed	hod	Enrollment criteria
Зн- 1- 7 Ум- 1- 20 К- 1- 20 АВ- 1-8		P 1-8 SW 1-7	Practical tasks are performed by stud- in the classroom in accordance with guidelines for practical training.	h the	Maximum score is 5 points, The minimum score is 3

results of practical work are made out by	points
the student in the form of the protocol	points.
-	
according to the scheme: date and a	
subject of employment; the principle of	
the method of determining the studied	
indicators; the formula for the calculation	
and the result obtained; hygienic	
conclusion, in which the obtained result	
is compared with the hygienic standard	
and hygienic recommendations are given	
to optimize the condition of the object of	
study, aimed at improving the indicator.	
The protocol at the end of the lesson is	
signed by the teacher.	
Evaluation of theoretical material:	
-"excellent" (5) - the student has	
mastered the theoretical material,	
demonstrates deep and comprehensive	
knowledge of the topic, the main	
provisions of scientific sources and	
recommended literature, thinks logically	
and builds the answer, freely uses the	
acquired theoretical knowledge in the	
analysis of practical material;	
- "good" (4) - the student has mastered	
the theoretical material, has the basic	
aspects of primary sources and	
recommended literature, argues it,	
expresses his views on certain issues, but	
assumes certain inaccuracies and errors	
in the logic of the theoretical content;	
- "satisfactory" (3) - the student has	
mainly mastered the theoretical	
knowledge of the subject or discipline, is	
guided by primary sources and	
recommended literature, but	
unconvincingly answers, confuses	
concepts, additional questions cause the	
student uncertainty or lack of stable	
knowledge;	
- "unsatisfactory"(2) - the student has not	
mastered the study material of the topic,	
does not know the scientific facts,	
definitions, almost does not navigate in	
the original sources and recommended	
literature, there is no scientific thinking	
Evaluation of test control:	
- "excellent" (5)- the student answered	
correctly 90-100% of the A format test	
(from the database "Step-2");	
- "good" (4) - the student answered	
correctly 74-89% of the A format test	
(from the database "Step-2");	
- "satisfactory" (3) - the student answered	
correctly 60-73% of the A format test	

	(from the database "Step-2");	
	- "unsatisfactory"(2) - the student gave	
	less than 60% of correct answers to the A	
	format tests.	
	Evaluation of situational tasks:	
	For solving situational tasks, the ability	
	to analyze and interpret research results	
	to correctly draw sound conclusions, the	
	student receives:	
	- "excellent" (5) - the student correctly	
	solved the situational task in accordance	
	with the sequence of its solution and	
	made reasoned conclusions and gave the	
	necessary recommendations;	
	- "good" (4) - the situational task is	
	solved correctly in accordance with the	
	sequence of its solution, but the	
	conclusion is inaccurate or incomplete; -	
	- "satisfactory" (3) - the situational task is	
	not fully solved (the sequence of its	
	solution is not followed, or there are	
	errors in the calculations or an incorrect	
	conclusion is made);	
	- "unsatisfactory" (2) - the situational	
	task is not solved.	
	<i>The sequence of solving the problem:</i>	
	- reading the condition of the problem	
	and clarifying the content;	
	- a brief record of the task conditions;	
	- analysis of the condition of the	
	problem, during which its essence, norms	
	or formulas that are needed for the	
	solution, drawing up a plan for solving	
	the problem are clarified;	
	- obtaining the final algorithm or formula	
	for calculation (indicating all physical	
	quantities expressed in the SI system),	
	calculation of the specified value;	
	- analysis of the obtained results, writing	
	a conclusion and recommendations.	
	Evaluation of practical skills:	
	- "excellent" (5) - the student freely uses	
	the acquired theoretical knowledge in the	
	analysis of practical material,	
	demonstrates a high level of mastery of	
	practical skills;	
	- "good" (4) - the student has practical	
	skills, but assumes certain inaccuracies	
	and errors in the implementation of	
	practical skills;	
	- "satisfactory" (3) - the student in	
	response to questions of a practical	
	nature, reveals inaccuracies in	
	knowledge, is unable to assess facts and	
	phenomena, relate them to future	
	· , · · · · · · · · · · · · · · · · · ·	

			[]	
		activities, makes mistakes in performing		
		practical skills;		
		- "unsatisfactory" (2)- the student has no		
		practical skills.		
		Self-work of students		
		Independent work of students in		
		preparation for a practical lesson is		
		assessed during the current control of the		
		topic in the relevant lesson.		
		Execution of SW by volumes, which are		
		submitted for independent study, is		
		recorded in the academic journal.		
		Final control		
General evaluation s	ystem	Participation in the work during the		
		semester / credit on a 200-point scale		
Rating scales		traditional 4-point scale, multi-point		
		(200-point) scale, ECTS rating scale		
Admission to final c	ontrol	The student attended all practical		
		(laboratory, seminar) classes and		
		received at least 120 points for current		
		performance		
Type of final cont	trol	Methods of final control	Enrollment criteria	
Credit		All topics for current control submitted.	The maximum number of	
		Grades from the 4-point scale are	points is 200.	
		converted into points on a multi-point	The minimum number of	
		(200-point) scale in accordance with the	points is 120	
		provision "Criteria, rules and procedures		
		for evaluating the results of student		
		learning activities"		
The calculation of j	points is ca	rried out based on the student's grades acco	rding to the 4-th grads	
(national) scale during th	he study of	the discipline, by calculating the arithmetic	c mean (AM) rounded up to	
two decimal places. R	lesulting va	lue is converted into points according to mu	ultipoint scale as follows:	
$X = CA \square 200$				
5				
9. Course policy				
It is based on the full implementation of the curriculum of the course (attending workshops, working				
academic debts up, performing independent tasks), academic integrity, lack of plagiarism.				
Observance of academic integrity by students:				
1. Independent performance of educational tasks, tasks of current and final control of results;				
2. Links to sources of information in the case of the use of ideas, developments, statements, information;				
3. Observance of the legislation on copyright and related rights.				
4. Providing reliable information about the results of their own (scientific, creative) activities, used				
research methods and sources of information.				
10. References				

Principal:

1. Hygiene and ecology / Edited by professor V.G. Bardov. Vinnytsya: Nova Knyha, 2018. 688 p.

2. Hygiene and ecology / V.A. Korobchanskiy, M.P. Vorontsov, A.A. Musulbas. Kharkov, 2006. 207 p.

3. General hygiene and environmental health / Edited by M.M. Nadvorny. Odessa, 2005. 242 p.

4. Hygiene and human ecology / O. V. Fera. Uzhhorod: Goverla, 2019. 247 p.

5. Hygiene and preventive medicine / M. M. Nadvorniy [et al.]; ed. by Prof. Nadvorniy M. M., Prof. Lastkov D.O. Odessa: Press-courier, 2011. 208 p.

6. Principles of occupational health and hygiene. An introduction / edited by Sue Reed, Dino Pisaniello, Geza Benke. 2019. 576 p.

7. Occupational Safety and Hygiene IV /Edited By Pedro M. Arezes et al. 2016. 636 p.

Additional:

1. General hygiene and medical ecology. Textbook for student's medical faculty/ Editor prof. S.Shibanov., Simferopol, 2004. 540 p.

2. Hygiene and ecology. Student's text-book, 4 modules, 38 chapters. Vladimir A. Korobchanskiy, Michael P. Vorontsov, Alisa A. Mususlbas. Kontrast Publishing Enterprise, Kharkov, 2006. 207 p.

3. Principles of Human Nutrition / 2nd ed. by Martin Eastwood. 2003. 680 p.

4. Preventive Medicine, Integrative Medicine and the Health of the Public / David L. Katz, Ather Ali. 2009. 45 p.

5. General nutrition: Study guide for the 4th accreditation level Medical School Students / edited by S.T. Omelchuk, O.V. Kuzminska. Kyiv, 2016. 146 p.

6. Glossary of Hygiene and Ecology (Ukrainian-Russian-English) / Biletska E.M., Onul N.M., Antonova O.V., Holovkova T.A., Kalinicheva V.V. Edited by professor Biletska E.M., Dnipro: Aktsent PP, 2019. 187 p.

7. General Science of Nutrition. Study Guide for the 4th accreditation level Medical School Students /Edited by S.T. Omelchuk, O.V. Kuzminska., K., 2016. 145 p.

8. Clinical Nutrition Basics for Medical Students Paperback / Amanda Velazquez - 2014, 304 p.

9. Fundamentals of Human Nutrition: for Students and Practitioners in the Health Sciences, 12-th Edition/Catherine Geissler, Hilary Powers, 2011, p. 291-365.

10. Nutrition at a Glance 1st Edition / Mary Barasi 2014, p. 80-102.

11. Nutrition Counseling and Education Skills: A Guide for Professionals 7th Edition/Judith Beto, Betsy Holli, -2018, p. 220-245.

12. Nutrition in Public Health 4th Edition /Sari Edelstein,- 2018.-p.183-225.

11. Equipment, logistics and software of the discipline / course

- Training program of the discipline

- Plans of practical classes, and independent work of students

- Methodical recommendations for practical training for students

- Methodical recommendations for practical training for teachers

- Methodical recommendations that provide independent work of the student

- MCQs of the A format test (from the database "Step-2") and cases for practical classes

- Situational tasks for practical classes

- The list of questions which are submitted for final control

- Methodical support of the final control

- Demonstration materials, instructions for the use of devices and equipment.

12. Additional Information

Materials related to the educational and organizational process (thematic plan, schedule of classes, schedules of consultations and work up of missed classes) are available on the website of the department: kaf_prophylactictox@meduniv.lviv.ua. Educational and methodical materials (topic guidelines) for preparation for practical classes, independent work, self-control are available on the MISA platform in the section "Department of hygiene and prophylactic toxicology FPGE " on the website of LNMU named after Danylo Halytsky: http://misa.meduniv.lviv.ua/ login / index.php.

Compilers of the syllabus

Ulyana B. Lototska-Dudyk, associate professor, PhD

Head of the department

Ulyana B. Lototska-Dudyk, associate professor, PhD