

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

Faculty of foreign students	1. General information			
specialty, higher education level, form of education of education education form of education) Academic year 2021-2022 Name of the discipline, code (email address at Danilo Halytsky Lviv National Medical University) Department (name, address, telephone, e-mail) Head of the department (contact e-mail) Pear of study (year of study of discipline) Semester XI-XII Type of discipline / module (required / optional) Tutors (names, names, degrees and titles of teachiers who teachdiscipline, contact e-mail) Erasmus yes / no (discipline availability for students at withinthe Erasmus + program) The person responsible for the syllabus (e-mail) Number of ECTS credits Number of hours (lectures / practical classes / self-educational work of students) Language of teaching Consultation information MISA system, VEB-site of the department, information stands of the department 2021-2022 Hygiene and Ecology OB 3.1. https://new.meduniv.lviv.ua/kafedra/gigiyeny-ta-profilaktychnoyi-toksykologiy/ Department of clousy OB 3.1. https://new.meduniv.lviv.ua/kafedry/kafedra-gigiyeny-ta-profilaktychnoyi-toksykologiy/ Department of hygiene and prophylactic toxicology FPGE Address Zelena str., 12, Lviv, Ukraine, 79010, phone: +38 (032) 276-28-22, e-mail: ulyanalot@gmail.com Students X-LXII Ulyana B. Lototska-Dudyk, associate professor, PhD, chief of department of hygiene and prophylactic toxicology FPGE, e-mail: ulyanalot@gmail.com No Ulyana B. Lototska-Dudyk, associate professor, PhD, e-mail: ulyanalot@gmail.com No **Mail ulyanalot@gmail.com** No *	Name of the faculty			
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2. Short summary of the course The discipline "Hygiene" is simpled at the formation of 6th year medical students Feaulty of Vnovyledge to		Short summary of the course		

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 socioeconomic 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	Learning outcomes determine what the student must	The symbol of the		
when the syllabus is	know, understand and be able to perform, after	code of the program		
filling (category:	completing the discipline in accordance with the	learning results in the		
Kn - Knowledge,	learning objectives.	Standard of Higher		
Sk- Skill,	To enroll in the discipline, it is necessary to confirm the	Education		
C-Competence	achievement of each learning result.			
(general),				
AR - Autonomy and				
Responsibility				
Kn-1	Know the methods of analysis, synthesis and further	PLR 4, 5, 12, 18, 22		
	modern learning			
Sk- 1	Be able to analyze information, make informed			
	decisions, be able to master modern knowledge			
GC-1	Abstract-thinking, analysis and synthesis capability			
AR -1	To be responsible for the timely acquiring of modern			
	knowledge.			
Kn- 2	Know the current trends of medicine development and	PLR 12, 18, 22		
a. 2	analyze them			
Sk-2	Be able to analyze professional information, make			
GC -2	informed decisions, acquire modern knowledge Ability to learn and master modern knowledge			
AR -2	To be responsible for the timely acquisition of modern			
AK -2	knowledge.			
Kn- 3	Have specialized conceptual knowledge, acquired in	PLR 4, 5, 12, 18, 22		
	the process of studying.	7 - 7		
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	-
SK 1	updating and integrating knowledge.	
GC -4	Knowledge and understanding of subject area and	-
GC -4	professional activity	
AD 4		<u> </u>
AR -4	To be responsible for professional development, the	
	ability to further professional training with a high level of autonomy	
Kn- 5	•	DI D 4 5 12 19 22
KII- J	To know types and ways of adaptation, principles of action in a new situation	PLR 4, 3, 12, 18, 22
Sk-5		-
SK-3	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-	-
AIX -J	regulation	
Kn- 6	To know the tactics and strategis of communication,	DI D / 5 12 19 22
IXII- U	laws and methods of communicative behavior.	1 LK 4, J, 12, 18, 22
Sk-6	To be able to make justified decisions, choose the ways	-
DK-0	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	_
AK - 0	communication method	
Kn- 7	To know the tactics and strategies of communication,	DI D 12 18
KII- /	laws and methods of communicative behavior.	FLK 12, 10
Sk-7	To choose the ways and strategies of communication to	-
JK-/	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	1 21(12, 10
SK 0	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	1
	writing	
GC -9	Ability to communicate, using the state language both	1
	orally and writing.	
AR -9	To be responsible for free possession of the state	1
	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	
AR -10	To be responsible for the development of professional	
	knowledge with the use of foreign language.	
Kn- 11		PLR 5, 12, 18, 22
	informative and communicative technologies applied in	
	professional activities]
Sk-11	To be able to use informative and communicative	
	technologies in the professional field, that need	
	updating and integrating the knowledge	

GC -11	Skills of using of informative and communicative technologies	
AR -11	To be responsible for the development of professional	_
7MC 11	knowledge and skills	
Kn- 12	Know the responsibilities and ways of fulfilling the	PLR 5, 12, 18
	tasks	- , , -
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	
GG 12	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	PLR 18, 22
1311 17	ways to preserve it.	11.10, 22
Sk- 14	Be able to form requirements for themselves and others	
SK 11	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	
	activity	
Special Kn-2	Have specialized knowledge about human, his organs	PLR 4, 5, 12, 18
	and systems, standard methods of laboratory and	
01 2	instrumental research	
Sk- 2	To be able to analyze the results of laboratory and	
SC-2	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	_
AIX -2	laboratory and instrumental examinations	
Kn-4	Have specialized knowledge about human, his organs	PLR 4, 5, 12, 18, 22
1	and algorithms and standard schemes for determining	1210 1, 3, 12, 10, 22
	the regime of work and rest at treatment of the sick	
	person	
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	PLR 4, 5, 12, 18
	standard schemes of nutrition in the treatment of	
<u> </u>	diseases	_
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	
	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	
	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	
W 10	lifestyle, primary prevention of diseases and injuries	DI D 4 5 10 10 00
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,	
SK- 10	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 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	
	statistical health research population; processing of	
	state, social, economic and medical information;	
AR - 18	To be responsible for the validity of the conclusions on	
	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
	population; environmental factors that negatively affect	
	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	
	determinantsthat influence on health of population;	

	,			
negative health of			ors on the oups. Know areas, time	
Sk- 19 SC- 19	environ impact. laborate population data environ of the public influence the heal able to negative health of Ability environ	e to assess the health of mental conditions and negative factor. Possess the methods of stating analysis of health of differentions. Be able to form preventive means on the relationship between the sement and the health status of certain population. Be able to calculate in health. Be able to assess the relate of socio-economic and biological the of the individual, family, and population and its separate groups to assess the environmental imponent, socio-economic and mants on the health of the individual.	ors of health distical and groups of sures based state of the contingents adicators of tionshipand I factors on bulation. Be prevent the ors on the biological	PLR 4, 5, 12, 18, 22
AR - 19	health s negative econom timely i	esponsible for timely conclusions relatus of population on the basis of impact of environmental factors and biological determinants, antroduction of proposals for the imp	data on the ors, socio-	
	of appro	priate preventive measures.		
	Course format	6. Course format and scope	ne course	
	ype of activity	Number of hours		nber of groups
Practical	ype of activity	40	run	1-8
Self-train	ing work	50		1-8
Sur truin	mg worm	7. Topics and content of the cours	se	10
Code of the type of the classes	Торіс	Content of the studying	Learning results code	Teacher
P-1 (practical class)	Methodological, methodical principles of studying and ris assessment of environmental factor influence on population health. Preventive toxicology. Principle and methods of hygien normalization of harmfor chemical substances different environments objects	of development of different disease Hygienic diagnostics. Ecologica dependent diseases, methods of the prognostication and prophylaxi Population health as an integr criterion for environment estimation The methods of establishment of correlations between the state of environment and health. Ris assessment methodology. Problem of application of risk assessment methodology in Ukraine. Object and tasks of prophylactic toxicology. Conce about toxicokinetics, toxicodynamic toxicometry. Toxicness ar	PLR 12, PLR 18, PLR 22 PLR 22	Ulyana B. Lototska- Dudyk

	1		ı	
		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		
	XX	industry of the hygienical regulation.	DV D 40	***
P-2	Hygiene of water and	Hygienical indexes and norms	PLR 18	Ulyana B.
	water-supply, sanitary	of quality of drinking-water, them		Lototska-Dudyk
	protection of water	scientific ground. Determination of		
	objects and soil, cleaning	character and degree of		
	of settlements.	contamination of water sourses and		
		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		
		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		
		diseases, invasions, diseases of		
		uninfectious etiology. Processes and		
		indexes of autopurification 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		
		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.		
P-3	Hygienical aspects of	Sanitary and hygenic	PLR 4	Ulyana B.
	planning and	requirements to planning of lot land		Lototska-Dudyk
	exploitation,	of MPE, therapeutic, surgical,		Lower Dudyk
		pediatric, obstetric, infectious,		
	prophylaxis of in-	admitting departments, operating		
	hospital infection,	block and policlinic. A problem of		
	ultraviolet irradiation	in-hospital infections in medicine,		
	and radiation safety in	modern determinations of concept		
	treating-and-	and position to reasons of		
		distribution, structure of nosology		

	T			
	prophylactic	forms of in-hospital infections.		
	establishments	Principles and measures of		
		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.
1 .	medicine. A treatment-	factors that it provide. Types of	PLR 12	Lototska-Dudyk
		biological effect of nutriment and	FLK 12	Lototska-Dudyk
	and-preventive and	=		
	ecological-and-	types of nutrition. Value of diets		
	protective nutrition.	nutrients composition. The basic		
	1 ^	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		
	11011011	·		
		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,		
1				
		metabolism and detoxication of		
		metabolism and detoxication of xenobiotics in organism. The		
		metabolism and detoxication of		
		metabolism and detoxication of xenobiotics in organism. The hygienic characteristic and		
		metabolism and detoxication of xenobiotics in organism. The hygienic characteristic and assessment of a daily food product,		
		metabolism and detoxication of xenobiotics in organism. The hygienic characteristic and assessment of a daily food product, chemical composition and caloric		
		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-		
		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-		
		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		
		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.		
		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		
		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.		
		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		
		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		
		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		
		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		

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		and-spa institutions. The sanitary-		
		and-hygienic control by clinical (dietary) nutrition in care institutions.		
P-5	Lagislativa bases of	Bases of medical and	DI D 4	Lilvono D
F-3	Legislative bases of	prevention providing of working	PLR 4,	Ulyana B.
	the medical and	people, abide by sanitary norms and	PLR 5,	Lototska-Dudyk
	prophylactic providing	rules on enterprise and prophylaxis of	PLR 12,	
	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.		
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P-6	Hygienical value of	Basic criteria and indexes of contamination of atmospheric air, air	PLR 18	Ulyana B.
	contamination of	of living and public buildings.		Lototska-Dudyk
	atmospheric air and	Influence of atmospheric		
	physical factors in	contaminations on a health of		
	settlements. Hygiene	population. An estimation of quality		
	of planning of	of atmospheric air and the method of		
	settlements	study of influence of pollutants of		
		atmosphere on a health. The system of prevention measures of		
<u> </u>	1	or provention measures of	<u> </u>	

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P-7	The complex estimation of individual and population health and physical development of children. Hygienic requirements to planning, improvement of children's institutions and the organization of training and educational process	contamination of atmosphere. Urbanization as socially hygienical problem. Diseases, caused the high tempos of urbanization. Principles of planning, functional zoning and building of settlement. Habitation as factor of forming of individual health. Basic hygienically factors of habitation, them hygienical estimation. Sources of noise, vibration, EMV in settlements, them hygienical value and standardization, system of measures on a decline and prevention of negative influence in housings, educational apartments, MPE. The advanced social-and-biological, social-and-hygienic and medical-and-organization factors that influence on health of children, features of adverse factors influence on children. Modern methodical approaches to complex studying and estimation of state of children's health. The analysis of interrelation of indicators of health with influence of environment and children's health state, an order and periodicity of complex medical examinations and dispensary supervision over a state of health of children. Physical development as the important criterion of complex estimation of children's health. Influence of environmental factors on processes of growth and development of children in modern conditions, their correlation with a state of health. Principles of distribution of children on health groups. Peculiarities and negative consequences of influence on children's and adolescents' health of stay and studying conditions in schoolhouse. Hygienic requirements to the ground area, planning and a sanitary-and-technical accomplishment of schoolhouse premises. Hygienic requirements to a construction and parameters of school furniture, maintenance of optimum position of a body behind a school desk. Method of estimation of	PLR 4, PLR 5, PLR 12, PLR 22	Ulyana B. Lototska-Dudyk
		optimum position of a body behind a		

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		hygienic conditions of pupils' stay in		
		the schoolhouse. Criteria of readiness		
		of child to studying at school:		
		morphogenetic, psychological, social.		
P-8	The organization of	Determination and	PLR 18	Ulyana B.
	sanitary inspection on	classification of emergencies, their		Lototska-Dudyk
	temporary placing	influence on the sanitary-hygienic		·
	feeding and water-	terms of dwelling of population and		
	•	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		
	The forming of	of emergencies. Basic principles of		
	radiation load and	organization of the sanitary-hygienic and disease providing, temporal		
	hygienic aspects of	placing of a victim of population and		
	residence of	rescuers, during emergency,		
		principles of prognostication medical		
		hygienic consequences of		
	territories which were	emergencies. The hygienic setting of		
	exposed to the	norms is at emergency contamination		
	radioactive	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		
		constituent radionucindes, 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		PLR 18	Ulyana B.
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(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		
		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		
		activity of the person.		
SW-2	A hygienical	Unfavorable factors of in-	PLR 4,	Ulyana B.
	estimation of terms of	hospital environment of different	PLR 5,	Lototska-Dudyk
	stay of patients in	subsections of hospitals. Hygienical	PLR 12	
	medical	norms of microclimate, air environment, ventilation, natural and		
	establishments.	artificial illumination of different		
	Features 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		
	departments	with a diagnostic and medical aim. Structure of radiological department		
	departments	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		
1		radiation load of personnel and		
		patients. Operating conditions,		
		patients. Operating conditions, personal hygiene and benefits of personnel.		

SW-3	Food poisonings as	Food poisonings, their	DI D 5	Illyana D
3 W-3	Food poisonings as	definition, classification, modern	PLR 5,	Ulyana B.
	hygienical problem.	views on classification. Alimentary	PLR 12,	Lototska-Dudyk
	Method of	toxicoinfections, bacterial and	PLR 18	
	investigation of cases	mycotoxicoses, definition, etiology,		
	of the food poisonings	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		
		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.		
SW-4	Occupational hygiene	•	PLR 4,	Ulyana B.
	of medical workers in	equipment, optimum mode of	PLR 22	Lototska-Dudyk
	medical	exploitation of ME, as terms of	1 210 22	zototsna z aajn
	establishments.	creation of safe terms of labour of		
	Prevention of acute	medical personnel. Professional		
	respiratory disease	harmfulness, hygiene and labour of		
	COVID-19 caused by	medical personnel of different		
	SARS-CoV-2.	separations (therapeutic, surgical,		
	51 Hts Co v 2.	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		
0117	TT	hygiene of medical personnel	DI D 4	TII D
SW-5	Hygienical principles	Means and forms of physical	PLR 4,	Ulyana B.
	of rational	training in children's institutions.	PLR 18,	Lototska-Dudyk
	organization of	Hygienic principles of rational	PLR 22	
	physical education and	organisation of physical training of children and adolescents. The		
	labour studies of			
	children and teenagers.	diseases predetermined by the irrational organization of physical		
	Scientific bases of	training. Physiological-and-hygienic		
	conducting of medical-	bases of estimation of physical		
	professional	training lesson. Physical training		
	consultation	groups. Hygienic requirements to		
	Constitution	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		
		counselling as a hygicine problem, its		

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		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	Organization and conducting of sanitary supervision after the terms of labour of liquidators of consequences of extraordinary situations	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 12, PLR 18, PLR 22	Ulyana B. Lototska-Dudyk
SW-7	Preparation to practical classes	Individual preparation to practical classes: theoretical preparation, calculation of tasks and tests.	PLR 22	Ulyana B. Lototska-Dudyk
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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

8. Verification of learning results

Current control is carried out during the training sessions and aims to check the assimilation of students' 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

Learning results code	Code of the type of the classes	Verifying learning outcomes method	Enrollment criteria
Зн- 1- 7	P 1-8	Practical tasks are performed by students	Maximum score is 5
Ум- 1- 20	SW 1-7	in the classroom in accordance with the	points,
K- 1- 20		guidelines for practical training. The	•
AB- 1-8		guidelines for process training.	1110 1111111111111111111111111111111111

points.

results of practical work are made out by the student in the form of the protocol 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 the mainly mastered 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.

The sequence of solving the problem:

- 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 system		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 control	The student attended all practical				
		(laboratory, seminar) classes and				
		received at least 120 points for current				
		performance				
Type of final control		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 points is carried out based on the student's grades according to the 4-th grads (national) scale during the study of the discipline, by calculating the arithmetic mean (AM) rounded up to two decimal places. Resulting value is converted into points according to multipoint scale as follows:

 $X = CA \square 200$

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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/<u>Judith Beto</u>, <u>Betsy Holli</u>, 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.

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