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F-Educational plan of the discipline

APPROVED

by the decision of the Academic Council of the USU Institute of Medicine,

Ecology and Physical Culture

ng 2020, protocol No. 10/220

(V.I. Midlenko)

signature 22" 06 2020

WORKING DISCIPLINES PROGRAM

Discipline	Hygiene
Faculty	Medical
Department	Public health and health care
Course	3,4

Direction (specialty) 31.05.01 General medicine with partial training at English

code of the direction (specialty), full name

Orientation (profile/specialization)

full name

Internal form of education

Date of Introduction in educational process of UISU «01" september 2020

The program is updated at a faculty meeting: protocol No. 1 from 31.08. 2021.

The program is updated at a faculty meeting: protocol No. 1 from 29.08. 2022.

The program is updated at a faculty meeting: protocol No. 10 from 02.06. 2023.

Information about developers:

NAME	Department	Position, academic degree, rank
Alabina E.V.	Public health and health care	Associate professor, PhDs in Medicine.

Agreed	Agreed
Head of the department,	Head of graduating department
developing discipline -	hospital therapy
head of the department of public health and	
health care	
/ V.I. Gorbunov. / Signature Full name " 22 " 06 2020	M. Ochen / Vize-Hripunova M. A. / Signature Full name " 22 " 06 2020

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1.GOALS AND TASKS OF STUDYING THE COURSE

Goals of studying the course: acquiring the knowledge of the issues related to the regularities of human-environment interaction, environmental protection and ecology; learning the generally accepted methodology of studying the environment; contributing to the formation of the proactive outlook of a future doctor.

Tasks of studying the course: taking the measures aimed at maintaining the health of adult population and the youngsters, implementation of preventive measures against diseases among adult population and the youngsters, forming the motivation to maintaining and promotion of health among adult population, the youngsters and their relatives, awareness-building aimed at promoting the healthy lifestyle among adult population, the youngsters and their relatives; developing the positive medical behaviour among adult population, the youngsters and their relatives aimed at maintaining and promotion of health and increasing motivation to the elimination of bad habits having a negative influence on the health of the younger generation; organization of events in the sphere of labour protection and safety, prevention of professional diseases, control and maintenance of environmental safety; analysis of research literature and official statistical reports, preparing reports on relevant research problems.

2. PLACE OF THE SUBJECT IN THE STRUCTURE OF GEP:

In accordance with the Federal State Education Standards of Higher Professional Education the academic course "Hygiene" is classified as a basic discipline of the academic major 31.05.01 "General medicine" (higher professional education), which is studied in the VI and the VII semesters.

Development of discipline "Hygiene" is based on knowledge, skills formed by the previous disciplines: «Physics, mathematics», «Medical informatics», «Chemistry», «Biology», «Biochemistry», «Microbiology, virology», «Propaedeutics of internal diseases. Introduction to specialty», «Psychology and pedagogics of profession of a physician», «Physiology of visceral systems», «Psychology and pedagogics of profession of a physician», «Dialogue of the doctor with the patient (diseases of a cardiovascular system)», «Bases of scientific style of the speech», «Dialogue of the doctor with the patient (disease of the digestive system)», «Bases of rational nutrition», «Dialogue of the doctor with the patient (diseases of respiratory organs)», «Dialogue of the doctor with the patient (diseases of bodies of urination)», «Nanotechnologies in medicine», «Practice on obtaining primary professional skills, including primary skills of research activity (Care for therapeutic and surgical patients)», «Clinical practice (Care for therapeutic and surgical patients)», «Assistant to junior medical staff», «Biopsychosocial approach to medical rehabilitation», «Public health and health care», «Bases of rational nutrition», «Design activity»,

«Assistant to the procedural nurse (Part 1) », «Assistant to the procedural nurse (Part 2) », «Assistant to the charge nurse».

Studying discipline "Hygiene" allows students to gain necessary knowledge, skills at development of the subsequent disciplines: «Endocrinology», «Phthisiology», «Making an abstract of special medical texts (diseases of an endocrine system)», «Making an abstract of special medical texts (diseases of bodies of urination)», «Diabetology and urgent endocrinology», «Annotation and summarizing of special medical texts (diseases of a respiratory system)», «Preparation for delivery and passing state exam», «Practical application of the International classification of functioning in rehabilitation in various pathology», «Epidemiology», «Annotation and summarizing of special medical texts (diseases of a

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hepatobiliary system)», «Annotation and summarizing of special medical texts (diseases of bodies of urination)», «Quality management of medical care», «Practice on obtaining professional abilities and experience of professional activity (Medical assistant of out-patient and polyclinic establishment)», «Topical issues of internal diseases», «Urology and andrology».

3. LIST OF EXPECTED RESULTS OF INSTRUCTION ON THE SUBJECT (UNIT), CORELATED WITH PLANNED RESULTS OF COMPLETING THE PROGRAM

Competence index. Content	The proposed results of the course students are:
of a competence	The proposed results of the course students are.
(or a part of it)	
General professional	Know: basic methods of hygienic studies and hygienic
competency 7 - readiness to	regulations.
use the fundamental	
definitions and methods of	Be able : to interpret the results of carrying out hygienic studies when solving professional tasks and identify possible
	harmful factors.
Physics, Chemistry, Mathematics and other	
Natural Sciences when	Be able to use: basic methods of hygienic studies when
	solving professional tasks, to define the results of applying
solving professional tasks	hygienic methods to solving professional tasks.
Professional competency 1 -	Know: population health indicators; Factors forming the
readiness to carry out the set	health; Hygienic aspects of nutrition; Diseases related to the
of activities aimed at	harmful influence of climate and social factors.
maintaining and promotion	Be able: to define causal relations between the changes to the
of health, including the	health condition and the influence of environmental factors; to
formation of the healthy	assess the health condition and the influence of external
lifestyle, prevention of	environment factors on it.
emergence and/or	Be able to use: the assessments of the health conditions; the
dissemination of diseases,	methods aimed at eliminating the harmful influence of
early diagnosis, definition of	environmental factors on the health of children.
conditions causing the	
emergence of diseases and	
elimination of harmful	
influence of the	
environmental factors on	
human health	
Professional competency 4	Know: the importance of collection and medical-statistical
- readiness to use the social-	analysis of information as a population health indicator, the
hygienic methods of	
collecting and medical-	j j
statistical analysis of	= =
information about population	Be able to use: the methodology of collection and medical
health indicators.	and statistical analysis of information about population health
	indicators.
Professional competency 15	Know: basic health-promoting hygienic activities.
- readiness to teach the	Be able: to analyze and assess the influence of the external
patients and their relatives to	environment factors on the health of the population, to carry
carry out basic health	out preventive activities aimed at increasing body resistance to

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promoting hygienic activities, the skills of self-control of the principal physiological indicators contributing to the maintenance and promotion of health and prevention of diseases.

harmful environmental factors using conditioning, to promote healthy lifestyle.

Be able to use: the assessments of the public health condition, health-promoting hygienic activities contributing to the maintenance and promotion of health and prevention of diseases.

Professional competency 16 -readiness to carry out awareness-building aimed at elimination of the risk factors and forming the skills of healthy lifestyle.

Know: the factors forming the health of population, organization of preventive events, aimed at health promotion. Be able to: assess the social factors influencing the condition of the physical and psychological health of population; carry out preventive events to increase body resistance to harmful environmental factors using different methods of physical culture, sport and conditioning; promote healthy lifestyle.

Be able to use: the assessments of the public health condition, methods and means of awareness-building aimed at elimination of the risk factors and forming the skills of healthy lifestyle.

4. VOLUME OF THE SUBJECT

4.1. Volume of the subject in credit points (total): 6credit points

4.2. On types of academic workload (in hours):

True of andomic	Numberofhours						
Type of academic work	Only according	Including	onsemester				
WOLK	to the plan	1	2				
1	2	6	7				
Work of students with	105/105	51/51	54/54				
a teacher*							
Classes: *	105/105	51/51	54/54				
Lectures*	35/35	17/17	18/18				
practical classes and	70/70	34/34	36/36				
seminars*							
lab classes (practical							
lessons)							
Self-study work*	75/75	39/39	36/36				
Concurrent control							
(number and type: a	Poll, presentation	Poll, presentation of	Poll, presentation of				
test, a colloquium, a	of reports, case	reports, case studies	reports, case studies				
report)	studies						
Course paper							
Types of intermediate	a pass-fail test,	a pass-fail test	examination				
attestation	examination36/36		36/36				
(examination, test) *							
Total number of	216/216	90/90	126/126				
hours on the subject*							

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^{*}If it is necessary to use partially or exclusively remote educational technologies in the educational process, the table shows the number of hours of work of teaching staff with students for conducting classes in a remote format using e-learning.

4.3. Content of discipline (module.) Distribution of hours on subjects and types of study:

Internalformofeducation.

			Typesofedu	ıcational		Form of the
		Classroomoccupations		ons		current
Name of sections andtopics	Intota I	Lectu res	Practicalt raining, seminars	Occupat ions in an interacti ve form	Indepen dentwor k	control of knowled ge
Section 1. Hygiene as science. Hygien	ne metho	dology.				
Topic 1. History of hygiene. Subject, contents and problems of hygiene. Methodsofhygienicresearches.	5	2			3	presentat ion of reports
Section 2. Hygiene of the air enviro	nment.			I.		
Topic 2. Physical properties of air and their value for an organism.	6	2	4	2		oral poll, solution of situation al tasks
Topic 3. Chemical composition of air and its hygienic value. Hygienic characteristic of the main sources of pollution of atmospheric air. Hygienic characteristic of bacterial pollution of the air environment. Solar radiation.	4	2	2			oral poll
Topic 4. Heating, ventilation and lighting.	4	2	2			oral poll
Topic 5. Climate and health. Hygienic problems of adaptation and acclimatization.	6				6	presentat ion of reports
Topic 6. Modern environmental problems. Ecology and human health.	6				6	presentat ion of reports,
Section 3. Hygiene of water and water			1	1	T	
Topic 7. Physiological, hygienic and epidemiological value of water. Water supply sources. Water supply systems.	4	2	2			oral poll
Topic 8. Hygienic requirements to quality of drinking water. Hygienic	4	2	2	1		oral poll, solution

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requirements to water quality of not						of
centralized water supply.						situation
Hygienicbasesofwatersupply.						al tasks
Topic 9. Hygienic	2		2			oral poll
characteristic of methods of						
improvement of water quality.						
Waterpurification. Waterdisinfecting.						
Section 4. Hygiene of nutrition.					1	
Topic 10.	4	2	2	1		oral poll
Food and health of the population. The						
value of rational nutrition. Methods of						
definition of energy costs of an						
organism and principles of rational						
nutrition.						
Topic 11. Main requirements to		_	_			oral poll
qualitative structure of a diet. Medical	4	2	2	1		
control of adequacy of food.						
Composition and assessment of the						
menu production record.						1 11
Topic 12. Biological role of vitamins,	2		_			oral poll
mineral substances. Sources, norms.	2		2			
Topic 13. Medical nutrition monitoring	2		2	1		oral poll
of feeding in the medical organizations.						
Hygienic assessment of dietetic						
department of hospital.						
Topic 14. Nutrition value and sanitary	2		2			oral poll
examination of food. Nutrition value						
and sanitary and hygienic assessment of						
flour, bread.						
Topic 15. Nutrition value and sanitary	2		2			oral poll
and hygienic assessment of milk, meat.						
Topic 16. Conservation.	2		2			oral poll
Sanitary examination of canned food,	_		_			F
concentrates.						
Topic 17. Alimentary diseases and food	5	1	4	1		oral poll,
poisonings.						solution
						of
						situation
						al tasks
Topic 18. Nutrient additives:	2				2	presentat
classification, characteristics,						ion of
requirements.						reports
Topic 19. Features of nutrition of	4				4	presentat
pregnant women and feeding.						ionofrep
						orts
Topic 20. Features of nutrition of young	6				6	presentat
children.						ionofrep
						orts

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F-Educational plan of the discipline		Torrest the same

Topic 22. Features of nutrition of elderly people. Topic 23. Concluding lesson. pass-fail ctst Total: 90 17 34 6 39 Section 5. Hygiene of the soil. Topic 24. Hygiene of residential and public buildings. Topic 25. Urbanization and its hygienic value. Section 7. Hygiene of hospitals. Topic 27. Prevention of an intrahospital infection. Topic 28. Features of planning of specialized departments of hospitals. Topic 29. Features Topic 29. Features Topic 29. Features Topic 30. Hygiene of nadiation. Topic 31. Radiological departments of hospital. The organization of radiation safety during the work with the opened and closed sources. Section 9. Occupational hygiene. Harmful industrial poisons. Topic 33. Occupational hygiene. Harmful industrial poisons. Topic 34. Occupational hygiene in the factors. Occupational diseases. Topic 34. Occupational hygiene of side into inonfore orts Topic 35. Urbanization of radiation and its hygienic adiations. Topic 36. Topic 37. Prevention of an intrahospital infection. Topic 37. Prevention of an intrahospital infection. Topic 38. Hygiene of radiation industrial poisons. Section 9. Occupational hygiene. Harmful industrial poisons. 4	Topic 21. Preschool and school feeding.	6				6	presentat ionofrep orts
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agriculture.	6				6	ionofrep
						orts
Topic 35. Occupational injuries.						presentat
Reasons, prevention.	4				4	ionofrep
						orts
Section 10. Hygiene of children and tee	nagers.					
Topic 36. Main problems of hygiene of						oral poll,
children and teenagers. State of health	8	2	6	2		solution
of children and teenagers.						of
Assessmentofphysicaldevelopmentofchi						situation
ldrenandteenagers.						al tasks
Topic 37. Hygiene of studies at school.						oralpoll
Hygienic requirements to the	8	2	6	1		
organization of educational process.						
Hygienic requirements to placement,						
planning and the equipment of schools.						
Hygienic requirements to placement,						
planning, the equipment of kinder-						
gardens.						
Section 11. Hygienic bases of a healthy	lifestyle.	Modern	problems o	f personal l	ıygiene.	
Topic 38. Healthy lifestyle and						presentat
questions of personal hygiene.Hygienic	8	2			6	ionofrep
requirements to clothes and footwear.						orts
Hygienic assessment of natural and						
artificial materials. Hygienic						
requirements to skin, hair and oral						
cavity care products.						
Total:	90	18	36	8	36	
Examination:	36					
In total hours on discipline:	216	35	70	14	75	

5. COURSE CONTENT

Section 1. Hygiene as a science. Hygiene methodology.

Topic 1.History of hygiene.Subject, contents and problems of hygiene.Methods of hygienic researches.

Content ofthe topic.History of formation and development of hygiene.Subject, contents and value of hygiene.Hygiene as fundamentals of preventive medicine, communication of hygiene with other sciences.The place of hygiene in the system of medical education.Hygiene methods.

Section 2. Hygiene of the air environment.

Topic 2. Physical properties of air and their value for an organism.

Content of the topic. Value of the air environment for the person. Categories of the air environment. Structure of earth atmosphere. Physical factors of the air environment. Hygienic value of air temperature. Influence on an organism of high and low temperatures. Influence of atmospheric pressure upon an organism. High-rise, mountain and caisson disease. Hygienic value of air humidity. Types of humidity. Speed of the movement of air. Electric condition of the air environment.

Topic 3. Chemical composition of air and its hygienic value. Hygienic characteristic of the main sources of pollution of atmospheric air. Hygienic characteristic of bacterial pollution of the air

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environment.Solar radiation.

Content of the topic. Gas composition of atmospheric air. Hygienic value of the air components. Carbon dioxide as indicator of air pollution of residential and public buildings. An air cube, calculation of an air cube. Types of pollution of atmospheric air. Impact of chemical pollution of the air environment on health of the population. Prevention of action of the air environment. Hygienic characteristic of bacterial pollution of the air environment. Solar radiation.

Topic 4. Heating, ventilation and lighting. Content of the topic.

Hygienic requirements to heating.Local and central heating systems.Ventilation and its hygienic value.Ventilation systems.Hygienic value of airing of rooms.Determination of frequency rate of air exchange.Air conditioning.Hygienic requirements to natural and artificial lighting.

Topic 5.Climate and health. Hygienic problems of adaptation and acclimatization.

Content of the topic. General hygienic characteristic of climates. Hygienic problems in climatology. Climate and health. Seasonal diseases. Acclimatization to various climatic conditions and its problems. Influence of climate on health. Acclimatization and its hygienic value.

Topic 6.Modern environmental problems. Ecology and human health.

Content of the topic. Hygienic problems in ecology. Factors of the habitat and health of the population. Ecological diseases. Deposition and accumulation of hazardous substances in various objects of the environment. The impact of various physical and chemical factors on an organism.

Section 3. Hygiene of water and water supply.

Topic 7.Physiological, hygienic and epidemiological value of water.Water supply sources.Water supply systems.

Content of the topic. The role of a water factor in human life. Physiological value of water.

Hygienic value of water. The role of a water factor in developing of diseases. Water supply sources, their sanitary and hygienic characteristic. Water supply systems, their sanitary and hygienic characteristic.

Topic 8.Hygienic requirements to quality of drinking water. Hygienic requirements to water quality of not centralized water supply. Hygienic bases of water supply.

Content of the topic. Hygienic requirements to quality of drinking water. Hygienic requirements to water quality of not centralized water supply. The sanitary and chemical indicators characterizing biological (fecal) pollution of water. Sanitary protection of sources of water supply (zones of sanitary protection of sources of water supply).

Topic 9.Hygienic characteristic of methods of improvement of water quality.Water purification.Water disinfecting.

Content of the topic.Hygienic characteristic of methods of improvement of water quality. Water purification. Hygienic characteristic of methods of disinfecting of water. Advantages and disadvantages of methods. Water chlorination. Ways of chlorination of water. Chlorrequirement. Special methods of improvement of water quality.

Section 4. Hygiene of nutrition.

Topic 10.Food and health of the population. The value of rational nutrition. Methods of definition of energy costs of an organism and principles of rational nutrition.

Content of the topic. Rational nutrition. Requirements to the diet. Physiological needs for nutrient materials and energy for various groups of the population. Methods of definition of need of an organism for energy and nutrients. Determination of daily costs of energy according to tables. Calculation of daily need for the main nutrient materials.

Topic 11.Main requirements to qualitative structure of a diet.Medical control of adequacy of food.Composition and assessment of themenu production record.

Content of the topic. Main requirements to qualitative structure of a diet. Biological role of proteins,

Ministry of science and high education RF Ulyanovsk State University Faculty of Medicine named after Biktimirov T.Z., IMEiPC	Form	(1)
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sources, daily requirement.Biological role of fats, sources, daily requirement.Biological role of carbohydrates, sources, daily requirement.Content of food fibers in vegetable food, value of food fibers.The recommended ratio of nutrient materials.

Topic 12.Biological role of vitamins, mineral substances. Sources, norms.

Content of the topic. Biological value of vitamins. Biological value of mineral substances. Oil-soluble vitamins. The role of oil-soluble vitamins in food of the person, sources, norms. Water-soluble vitamins. The role of water-soluble vitamins, sources, norms. Mineral substances. Macro - and microelements, their role. Sources, norms. Method for determining vitamins.

Topic 13.Medical nutrition monitoring of feeding in the medical organizations. Hygienic assessment of dietetic department of hospital.

Content of the topic. Food of patients as part of complex therapy and prevention. Characteristics of clinical nutrition. Characteristics of treatment-and-prophylactic nutrition. Dietetic nutrition. Hygienic requirements to dietetic department of hospital.

Topic 14.Nutrition value and sanitary examination of food.Nutrition value and sanitary-hygienic assessment of flour, bread.

Content of the topic. Purposes and problems of sanitary examination of foodstuff, methods of a research of foodstuff: organoleptic, physical and chemical, bacteriological and their value. Nutrition and biological value of flour, bread. Flour research: determination of organoleptic and chemical indicators, determination of gluten of flour. Bread research: determination of organoleptic indicators, determination of porosity.

Topic 15. Nutrition value and sanitary - hygienic assessment of milk, meat.

Content of the topic. Nutrition and biological value of milk and dairy products. Methods of a research and assessment of quality of milk. Nutrition and biological value of meat. Methods of a research and assessment of quality of meat. Chemical methods of a research of milk. Determination of acidity of milk. Determination of falsification of milk. Determination of soda in milk. Organoleptic research of meat. Chemical research of meat.

Topic 16. Conservation. Sanitary examination of canned food and concentrates.

Content of the topic.Value of conservation.Physical methods of conservation.Biological methods of conservation.Chemical methods of conservation.Sanitary examination of canned food and concentrates.

Topic 17. Alimentary diseases and food poisonings.

Content of the topic. Alimentary diseases. The diseases caused by malnutrition. The diseases caused by overnutrition. Prevention of the diseases connected with irrational food. Food poisonings – classification, clinic, prevention.

Topic 18. Nutrient additives: classification, characteristics, requirements.

Content of the topic.General information about nutritional supplements.Definition and classification.Safety of nutritional supplements.Characteristic of nutritional supplements on the chemical composition and impact on an organism.Conditions of use of nutritional supplements.

Topic 19. Features of nutrition of pregnant women and feeding.

Content of the topic.Balanced diet of pregnant women. Nutrition in the first half of pregnancy. Nutrition in the second half of pregnancy. Vitamins, minerals in nutrition of pregnant women. Approximate menu, diet, need for liquid. Nutrition at abnormal pregnancy.

Topic 20. Features of nutrition of young children.

Content of the topic. Catering services of children of early age. Nutrition of children at chest feeding. Nutrition of children at artificial feeding.

Topic 21. Preschool and school feeding.

Content of the topic. Diet and menu card in kindergardens and at schools.

Topic 22. Features of nutrition of elderly people.

Content of the topic. Changes in digestive system of elderly people. Features of the immune system of

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elderly people. Need for nutrient materials, diet forelderly people.

Topic 23. Concluding lesson. Poll, pass-fail test.

Section 5. Hygiene value of soil.

Topic 24. Hygiene value of soil.

Content of the topic. Hygienic value of the soil, structure and properties of the soil. Types of soil. The sources of pollution. Processes of self-purification of the soil. The sanitary signs of soil. The role of the soil in endemic diseases. Utilization of household waste.

Section 6. Hygiene of residential and public buildings.

Topic 25.Urbanization and its hygienic value.

Content of the topic. City-forming factors and structure of the modern city. Urbanization and environmental problem. Zones of the cities. Hygiene of residential and public buildings. Microclimate, ventilation, heating, lighting, characteristic of finishing materials. Hygiene of the rural inhabited places. Features of planning, building, improvement.

Section 7. Hygiene of hospitals.

Topic 26. Hygienic characteristic of hospitals. Hygienic requirements to placement, planning of hospitals.

Content of the topic. Hygienic requirements to placement of hospitals and planning of the hospital site. Systems of building of hospitals, zones in the hospital area. Hygienic requirements to reception, to ward section.

Topic 27. Prevention of an intrahospital infection.

Content of the topic. Intrahospital infection. Hygienic aspects of prevention of an intrahospital infection.

Topic 28. Features of planning of specialized departments of hospitals.

Content of the topic. Planning of therapeutic department. Planning of surgical department. Planning of infectious department. Features of planning of gynecology department.

Topic 29. Features of professional activity of doctors of various specialties.

Content of the topic.Features of professional activity of doctors of a surgical profile, anesthesiologists, gynecologists, therapists.

Section 8. Hygiene of radiation.

Topic 30. Hygiene of radiation. Impact of ionizing radiation. Methods of protection against radioactivity.

Content of the topic. Definition of an ionizing radiation. Methods of measurement of ionizing radiation. Biological effect of ionizing radiation. Principles of hygienic rationing of ionizing radiation. Radio toxicity. The opened and closed sources of radiation. Methods of protection against radioactivity.

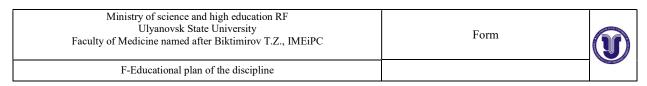
Topic 31.Radiological departments of hospital. The organization of radiation safety during the work with the opened and closed sources.

Content of the topic. The organization of radiation safety of medical staff in radiological departments. Principles of protection of medical staff against ionizing radiation. Hygienic requirements to placement, planning and the equipment of radiological departments of hospital.

Section 9. Occupational hygiene.

Topic 32.Occupational hygiene. Harmful industrial factors. Occupational diseases.

Content of the topic. Occupational hygiene.Harmful industrial factors.Types of negative factors.Occupational diseases, prevention. Dust (classification). The enterprises with the high level of dust content.Effect of dust on an organism.Prevention of dust diseases.Noise —



definition. Characteristic. The enterprises with high noise level. Action of noise on an organism. Prevention of an adverse effect of noise on an organism. Vibration - definition. Characteristic. Productions with the high level of vibration. Action of vibration on an organism. Prevention of harmful action of vibration on an organism. A microclimate — definition. Types of a microclimate (enterprise). Influence of a microclimate on an organism.

Topic 33.Hygienic assessment of toxicity of industrial poisons. Hygienic assessment of electromagnetic radiations.

Content of the topic.Industrial poisons and professional poisonings.Effect of industrial poisons.Characteristic and types of electromagnetic radiations.Sources of generation of different types of electromagnetic radiations.Preventive actions during the work with sources of electromagnetic radiations.

Topic 34.Occupational hygiene in agriculture.

Content of the topic. Occupational hazards of machine operators, characteristic, preventive actions. Professional harm of cattle breeders, characteristic, preventive actions. Occupational hazards during the work with pesticides and mineral fertilizers, characteristic, preventive actions. Agricultural traumatism.

Topic 35.Occupational injuries. Reasons, prevention.

Content of the topic.Occupational injuries - definition, classification, the reasons, preventive actions.

Section 10. Hygiene of children and teenagers.

Topic 36.Main problems of hygiene of children and teenagers. State of health of children and teenagers. Assessment of physical development of children and teenagers.

Content of the topic. Main problems of hygiene of children and teenagers. State of health of children and teenagers. Influence of social and ecological factors on the state of health. Criteria and groups of health. Physical development as indicator of health of the population. Methods of assessment of physical development. Complex assessment of physical development. Acceleration, retardation.

Topic 37.Hygiene of studies at school.Hygienic requirements to the organization of educational process.Hygienic requirements to placement, planning and the equipment of schools.Hygienic requirements to placement, planning, the equipment of kinder-gardens.

Content of the topic. Hygiene of studies at school. Hygienic requirements to the lesson, school day, educational week. The role ofactivities in prevention of exhaustion. Hygienic bases of physical training. Forms of physical training. Medical groups for physical education class. Organization of occupations and requirement to creation of a physical education class. Hygienic requirements to placement, planning and the equipment of schools and kinder-gardens.

Section 11. Hygienic bases of a healthy lifestyle. Modern problems of personal hygiene.

Topic 38.Healthy lifestyle and questions of personal hygiene. Hygienic requirements to clothes and footwear. Hygienic assessment of natural and artificial materials. Hygienic requirements to skin, hair and oral cavity care products.

Content of the topic. Hygienic principles of a healthy lifestyle. Personal hygiene as part of public hygiene. Hygiene of a body and skin. Hygienic characteristic of care products for skin. Hygiene of teeth and oral cavity. Hygienic characteristic of care products for teeth and oral cavity. Hygienic requirements to clothes, footwear as means of protection from adverse environmental factors in various climatic conditions. Hygienic characteristic of natural and artificial materials. Hardening of an organism. Value, basicprinciples. Means and methods of hardening.

6. TOPICS OF PRACTICAL CLASSES AND SEMINARS

Section 1. Hygiene of the air environment.

Topic 1. Physical properties of air and their value for an organism.

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Practical lesson.

Questions (for discussion).

- 1. Value of the air environment for the person.
- 2. Categories of the air environment.
- 3. Structure of the terrestrial atmosphere.
- 4. Physical factors of the air environment.
- 5. Physiologo-hygienic value of air temperature.
- 6. Influence on an organism of high and low temperatures.
- 7. Influence of atmospheric pressure upon an organism.
- 8. High-rise, mountain and caisson disease.
- 9. Hygienic value of air humidity.
- 10. Types of humidity. Norms. The devices used to determination of air humidity.
- 11.Influence on an organism of the movement of air. The devices used to definition of the direction and measurement of speed of the movement of air. "Wind rose", its value.
- 12. Electric condition of the air environment.

Topic 2. Chemical composition of air and its hygienic value. Hygienic characteristic of the main sources of pollution of atmospheric air. Hygienic characteristic of bacterial pollution of the air environment. Solar radiation.

Practical lesson.

Questions (for discussion).

- 1. Gas composition of atmospheric air. Hygienic value of its separate components.
- 2. Carbon dioxide as indicator of air pollution of residential and public buildings.
- 3. An air cube, calculation of an air cube.
- 4. Types of pollution of atmospheric air, polluters.
- 5. Impact of chemical pollution of the air environment on health of the population.
- 6. Protection of atmospheric air, main nonconsumptive actions, their hygienic efficiency.
- 7. Hygienic characteristic of bacterial pollution of the air environment.
- 8. Solar radiation, value of separate parts of a solar range.
- 9. Impact of atmospheric pollution on health and sanitary living conditions of the population.

Topic 3. Heating, ventilation and lighting.

Practical lesson.

Questions (for discussion).

- 1. Hygienic requirements to heating.
- 2. Local and central heating systems.
- 3. Ventilation and its hygienic value.
- 4. Ventilation systems: mechanical all-exchange and local (incoming, exhaust).
- 5. Hygienic value of airing of rooms.
- 6. Determination of frequency rate of air exchange.
- 7. Air conditioning.
- 8. Hygienic requirements to natural lighting. The conditions providing sufficient natural lighting.
- 9. Indicators of natural lighting, technique of their definition. Norms of natural lighting, technique of their definition.
- 10. Hygienic requirements to artificial lighting. Characteristic of artificial lighting and different lamps.
- 11. Methods of assessment of artificial lighting.

Section 2. Hygiene of water and water supply.

Topic 4.Physiological, hygienic and epidemiological value of water. Water supply sources. Water supply systems.

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Practical lesson.

Questions (for discussion).

- 1. Role of a water factor in human life.
- 2. Physiological value of water.
- 3. Hygienic value of water
- 4. Water consumption rates.
- 5. Role of a water factor in developing of diseases.
- 6. Water supply sources, their sanitary and hygienic characteristic.
- 7. Centralized system of water supply: device of the water system, hygienic requirements.
- 8. Local system of economic and drinking water supply: device of mine wells, tubular wells, springs, infiltration galleries, hygienic requirements.
- 9. Anthropogenic pollution of reservoirs.
- 10. Water self-cleaning.

Topic 5.Hygienic requirements to quality of drinking water. Hygienic requirements to water quality of not centralized water supply. Hygienic bases of water supply.

Practical lesson.

Questions (for discussion).

- 1. Hygienic requirements to quality of drinking water: (organoleptic properties, epidemiological safety, chemical harmlessness, radiation safety), standards.
- 2. Hygienic requirements to water quality of not centralized water supply.
- 3. The sanitary and chemical indicators characterizing biological (fecal) pollution of water.
- 4. Sanitary protection of sources of water supply (zones of sanitary protection of sources of water supply).

Topic 6.Hygienic characteristic of methods of improvement of water quality.Water purification.Water disinfecting.

Practical lesson.

Questions (for discussion).

- 1. Hygienic characteristic of methods of improvement of water quality. Water purification.
- 2. Hygienic characteristic of methods of disinfecting of water. Merits and demerits of methods.
- 3. Water chlorination. Ways of chlorination of water. A concept about chlorrequirement, chlorine absorptivity and residual chlorine.
- 4. Special methods of improvement of water quality (methods of removal of excess content of mineral components): softening of hard water, desalting and desalting of sea water, bitter and salty waters, fluoration, deferrization of the water containing high concentrations of iron, defluorination, decontamination, deactivation).

Section 3. Hygiene of nutrition.

Topic 7.Food and health of the population. Value of rational nutrition. Methods of definition of energy costs of an organism and principles of rational nutrition.

Practical lesson.

- 1. Concept about a balanced diet. Value and functions of food.
- 2. Main questions of hygiene of food.
- 3. Requirements to a diet.
- 4. Characteristic of standards of physiological needs for feedstuffs and energy for various groups of the population.
- 5. Methods of definition of need of an organism for energy and nutrients.
- 6. Definition of daily expenses of energy by a time and tabular and fast method.
- 7. Calculation of daily need for the main feedstuffs. Drawing up hygienic conclusion.



Topic 8.Main requirements to qualitative structure of a diet.Medical control of adequacy of food.Composition and assessment of the menu production record.

Practical lesson.

Questions (for discussion).

- 1. Main requirements to qualitative structure of a diet.
- 2. Biological role of proteins in food of the person, sources, norms.
- 3. Biological role of fats in food of the person, sources, norms.
- 4. Biological role of carbohydrates in food of the person, sources, norms.
- 5. Content of food fibers (cellulose) in vegetable food, value of food fibers.
- 6. Diet. The recommended ratio of feedstuffs.

Topic 9.Biological role of vitamins, mineral substances. Sources, norms.

Practical lesson.

Questions (for discussion).

- 1. Biological value of vitamins.
- 2. Biological value of mineral substances.
- 3. Oil-soluble vitamins. A role of oil-soluble vitamins in food of the person, sources, norms.
- 4. Water-soluble vitamins. Role of water-soluble vitamins B food of the person, sources, norms.
- 5. Mineral substances. Macro and microelements, their role in food of the person. Sources, norms.
- 6. Method for determining vitamins.

Topic 10.Medical nutrition monitoring of feeding in the medical organizations. Hygienic assessment of dietetic department of hospital.

Practical lesson.

Questions (for discussion).

- 1. Characteristics of clinical nutrition.
- 2. Characteristics of treatment-and-prophylactic food.
- 3. Basic principles of creation of dietary food, system of dietary food. 15 medical tables, features of each diet, indications.
- 4. Catering services in MPI. System of purpose of treatment-and-prophylactic food.
- 5. Hygienic requirements to catering department of hospital.

Topic 11. Nutrition value and sanitary examination of food. Nutrition value and sanitary and hygienic assessment of flour, bread.

Practical lesson.

Questions (for discussion).

- 1. Purposes and problems of sanitary examination of foodstuff, methods of a research of foodstuff: organoleptic, physical and chemical, bacteriological and their value.
- 2. Nutrition and biological value of flour.
- 3. Nutrition and biological value of bread.
- 4. Flour research: definition of organoleptic and chemical indicators, definition of gluten of flour.
- 5. Bread research: definition of organoleptic indicators, determination of porosity.

Topic 12. Nutrition value and sanitary and hygienic assessment of milk, meat.

Practical lesson.

- 1. Nutrition and biological value of milk and dairy products.
- 2. Methods of a research and assessment of quality of milk.
- 3. Nutrition and biological value of meat.
- 4. Methods of a research and assessment of quality of meat.

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- 5. Chemical methods of a research of milk. Determination of acidity of milk. Definition of falsification of milk. Definition of soda in milk.
- 6. Organoleptic research of meat. Chemical research of meat.

Topic 13.Conservation. Sanitary examination of canned food, concentrates.

Practical lesson.

Questions (for discussion).

- 1. Valueofconservation.
- 2. Physical methods of conservation.
- 3. Biological methods of preservation.
- 4. Chemical methods of conservation.
- 5. Sanitary examination of canned food and concentrates.

Topic 14. Alimentary diseases and food poisonings.

Practical lesson.

Questions (for discussion).

- 1. Alimentary diseases. The diseases caused by malnutrition.
- 2. The diseases caused by overnutrition.
- 3. Prevention of the diseases connected with irrational food.
- 4. Foodpoisonings classification.
- 5. Food poisonings of microbic origin, prevention.
- 6. Food poisonings of not microbic etiology, prevention.

Section 4. Hygiene value of soil.

Topic 15. Hygiene value of soil.

Practical lesson.

Questions (for discussion).

- 1. Processes of self-purification of the soil.
- 2. The sanitary signs of soil.
- 3. The role of the soil in endemic diseases.
- 4. Relation of population health to soil conditions. Sources and nature of soil contamination. Self-cleaning of the soil.
- 5. Collection, removal, and disinfection of liquid waste.
- 6. Collection, disposal, and utilization of solid household waste.

Section 5. Hygiene of residential and public buildings.

Topic 16.Urbanization and its hygienic value.

Practical lesson.

- 1. Urbanization, city-forming factors. Features of forming of the environment in the cities. Environmental problems.
- 2. Planning of the inhabited places. Types. The choice of the place for the settlement.
- 3. Functional zoning of the city. Systems of building of streets.
- 4. Hygienic aspects of improvement of the cities, role of green plantings.
- 5. Features of planning of the rural inhabited places.
- 6. Planning of dwellings. Justification of norms of an area.
- 7. Hygiene of dwellings, microclimate, ventilation, lighting, heating. Hygienic characteristic of finishing construction materials.

Section 6. Hygiene of hospitals.

Topic 17. Hygienic characteristic of hospital. Hygienic requirements to placement, planning of hospitals.

Practical lesson.

Questions (for discussion).

- 1. Classification of medical organizations.
- 2. Hygienic requirements to placement of hospitals and planning of the hospital area.
- 3. Systems of building of hospitals, zones in the hospital area.
- 4. Hygienic requirements to reception.
- 5. Hygienic requirements to ward section.
- **6.** Features of planning of children's hospitals.

Topic 18. Prevention of an intrahospital infection.

Practical lesson.

Questions (for discussion).

- 1. Intrahospital infection.
- 2. Hygienic aspects of prevention of an intrahospital infection.

Section 7. Hygiene of radiation.

Topic 19. Hygiene of radiation. Impact of ionizing radiation. Methods of protection against radioactivity.

Practical lesson.

Questions (for discussion).

- 1. Radioactivity.
- 2. Types of radiation.
- 3. Definition of an ionizing radiation.
- 4. Methods of measurement of ionizing radiation.
- 5. Biological effect of ionizing radiation.
- 6. Principles of hygienic rationing of ionizing radiation.
- 7. Radio toxicity.
- 8. The opened and closed sources of radiation.
- 9. Methods of protection against radioactivity.
- 10. Devices for determination of radioactivity/

Section 8.Occupational hygiene.

Topic 20.Occupational hygiene. Harmful industrial factors. Occupational diseases.

Practical lesson.

- 1. Occupational hygiene.
- 2. Harmful industrial factors. Types of negative factors.
- 3. Occupational diseases, prevention.
- 4. Dust (classification).
- 5. The enterprises with the high level of dust content.
- 6. Effect of dust on an organism. Prevention of dust diseases.
- 7. Noise definition. Characteristic.
- 8. The enterprises with high noise level.
- 9. Impact of noise on an organism. Prevention of an adverse effect of noise on an organism.
- 10. Vibration definition. Characteristic. Productions with the high level of vibration. Impact of vibration on an organism.

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- 11. Prevention of harmful action of vibration on an organism.
- 12. A microclimate definition. Types of a microclimate (enterprise). Impact of a microclimate on an organism.

Section 9. Hygiene of children and teenagers.

Topic 21.Main problems of hygiene of children and teenagers. State of health of children and teenagers. Assessment of physical development of children and teenagers.

Practical lesson.

Questions (for discussion).

- 1. Main problems of hygiene of children and teenagers.
- 2. State of health of children and teenagers.
- 3. Impact of social and ecological factors on the state of health.
- 4. Criteria and groups of health.
- 5. Physical development as indicator of health of the population.
- 6. Methods of assessment of physical development.
- 7. Complex assessment of physical development. Acceleration, retardation.

Topic 22.Hygiene of studies at school.Hygienic requirements to the organization of educational process.Hygienic requirements to placement, planning and the equipment of schools.Hygienic requirements to placement, planning, the equipment of kinder-gardens.

Practical lesson.

Questions (for discussion).

- 1. Hygiene of studies at school.
- 2. Hygienic requirements to the lesson, school day, educational week.
- 3. The role of activities in prevention of exhaustion.
- 4. Hygienic bases of physical training.
- 5. Forms of physical training.
- 6. Medical groups for physical education class.
- 7. Organization of occupations and requirement to creation of a physical education class.
- 8. Hygienic requirements to placement, planning and the equipment of schools and kinder-gardens.

7. LABORATORY CLASSES

This type of works is not provided unitary enterprise.

8. SUBJECTS OF COURSE PAPERS, TESTS, ESSAYS, REPORTS

No॒	Topic	Approximatesubjectsofreports
1.	History of hygiene. Subject, contents and problems of hygiene. Methodsofhygienicresearches.	 History of formation and development of hygiene. Subject, contents and value of hygiene. Hygiene as fundamentals of preventive medicine, communication of hygiene with other sciences. The place of hygiene in the system of medical education.
2.	Climate and health. Hygienic problems of adaptation and acclimatization.	 Hygienic characteristic of climates. Hygienic problems in climatology. Climate and health. Seasonal diseases. Acclimatization to various climatic

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		conditions and its problems.
3.	Modern environmental problems. Ecology	1. Hygienic problems in ecology.
] .	and human health.	Factors of the habitat and health of
	and numeri neares.	the population.
		2. Ecological diseases.
		3. Deposition and accumulation of
		hazardous substances in various
		objects of the environment.
		4. The impact of various physical and
		chemical factors on an organism.
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4.	Nutrient additives: classification,	1. General information about
	characteristics, requirements.	nutritional supplements. Definition
	_	and classification. Safety of
		nutritional supplements.
		2. Characteristic of nutritional
		supplements on the chemical
		composition and impact on an
		organism. Conditions of use of
		nutritional supplements.
5.	Features of nutrition of pregnant women	1. Balanced diet of pregnant women.
	and feeding.	2. Nutrition in the first half of pregnancy.
		3. Nutrition in the second half of
		pregnancy.
		4. Vitamins, minerals in nutrition of
		pregnant women.
		5. Approximate menu, diet, need for
		liquid.
		6. Nutrition at abnormal pregnancy.
6.	Features of nutrition of young children.	1. Catering of children of early age.
		2. Nutrition of children atbreast
		feeding.
		3. Nutrition of children at artificial
		feeding.
7.	Preschool and school feeding.	1. Diet and menu card
		inkindergardens.
		2. Diet and menu card at schools.
8.	Features of nutrition of elderly people.	1. Changes in digestive system of
		elderly people.
		2. Features of the immune system of
		elderly people.
		3. Need for nutrient materials, diet for
	Factoring of allowing C 11 1	elderly people.
9.	Features of planning of specialized	1. Features of planning of therapeutic
	departments of hospitals.	department.
		2. Features of planning of surgical
		department.
		3. Features of planning of infectious
		department.



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		4. Features of planning of gynecology
10.	Features of professional activity of doctors of various specialties.	department. 1. Professional activity of doctors of a surgical profile, anesthesiologists, obstetricians-gynecologists, therapists.
11.	Radiological departments of hospital. The organization of radiation safety during the work with the opened and closed sources.	 The organization of radiation safety of medical staff in radiological departments. Principles of protection of medical staff against ionizing radiation. Hygienic requirements to placement, planning and the equipment of radiological departments of hospital.
12.	Hygienic assessment of toxicity of industrial poisons. Hygienic assessment of electromagnetic radiations.	 Industrial poisons and professional poisonings. General patterns of effect of industrial poisons. (ways of penetration, a manifestation form, the factors defining effect of poisons). Characteristic and types of electromagnetic radiations. Sources of generation of different types of electromagnetic radiations. Biological effect of different types of electromagnetic radiations. Preventive actions during the work with sources of electromagnetic radiations.
13.	Occupational health in agriculture.	1. Occupational hazards of machine operators, characteristic, preventive actions. 2. Professional harm of cattle breeders, characteristic, preventive actions. 3. Occupational hazards during the work with pesticides and mineral fertilizers, characteristic, preventive actions. 4. Agricultural traumatism.
14.	Topic 35. Occupational injuries. Reasons, prevention.	1. Occupational injuries - definition, classification, the reasons, preventive

public hygiene.

1. Hygienic principles of a healthy

lifestyle. Personal hygiene as part of

Hygiene of a body and skin. Hygienic

characteristic of care products for skin.

actions.

Hygienic

15.

Hygienic bases of a healthy lifestyle.

Hygienic requirements to clothes and footwear. Hygienic assessment of natural

requirements to skin, hair and oral cavity

materials.

artificial

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care products.	3. Hygiene of teeth and oral cavity.
	Hygienic characteristic of care products
	for teeth and oral cavity.
	4. Hygienic requirements to clothes,
	footwear as means of protection from
	adverse environmental factors in
	various climatic conditions.
	Hygieniccharacteristicofnaturalandartif
	icialmaterials.
	5. Hardening of an organism. Value, basic
	principles. Means and methods of
	hardening.

9. QUESTIONS FOR EXAM/ OFFSET.

9.1. List of questions to examination

- 1. Subject and content of hygiene.
- 2. History of formation and development of hygiene.
- 3. Methods of hygienic researches.
- 4. Ecology. Modernenvironmentalproblems.
- 5. Physical properties of air and their value for an organism. Influence on an organism of high and low temperatures. Overheating, overcooling. Prevention measures. The devices used to determination of temperature. Norms.
- 6. Influence of atmospheric pressure upon an organism. High-rise, mountain, caisson disease. Thedevices used to measure ment of barometric pressure.
- 7. Physiologic and hygienic value of air humidity. Types of humidity. The devices used to determination of air humidity. Norms.
- 8. Influence on an organism of the movement of air. The devices used to definition of the direction and measurement of speed of the movement of air. Norms. "Windrose", its value.
- 9. Electric condition of the atmosphere (air ionization, electric field of Earth, electromagnetic field, geomagnetic field, their hygienic value).
- 10. Gas composition of atmospheric air. Hygienic value of its separate components
- 11. Hygienic value of carbonic acid. Maximum allowable concentration of carbon dioxide.
- 12. An air cube, calculation of an air cube, norm of a cubic capacity.
- 13. Pollution of atmospheric air. Degree of danger of industrial emissions to the environment and state of health of the population.
- 14. Solar radiation and its hygienic value. Hygienic value of separate parts of a solar range.
- 15. Biological effect of an ultra-violet part of a solar range depending on length of waves. Ultra-violetinsufficiency, itsmanifestation. Prevention.
- 16. Climate a formulation. Climatic factors. Weather a formulation. The factors defining weather. Seasonaldiseases and meteopatic reactions. Prevention.
- 17. Physiological, hygienic, epidemiological value of water.
- 18. The diseases connected with change of salt and microelement composition of water.
- 19. Water supply sources, their comparative hygienic characteristic.
- 20. Reasons of anthropogenic pollution of reservoirs. Waterself-cleaning.
- 21. Indicators of bacterial pollution of water (bacteriological, chemical).
- 22. Hygienic requirements to water quality. Hygienic requirements to quality of a source of water supply.
- 23. Hygienic characteristic of methods of improvement of water quality. Waterpurification.

Form



- 24. Hygienic characteristic of methods of improvement of water quality.
- 25. Hygienic characteristic of a local and centralized system of water supply.
- 26. Zones of sanitary protection of water sources. Normsofwaterconsumption.
- 27. Hygienic value of the soil, structure, properties of the soil.
- 28. Communication of health of the population with soil conditions. Sources and nature of pollution of the soil. Self-cleaningofthesoil.
- 29. Collecting, removal, disinfecting of a liquid garbage.
- 30. Collecting, removal, utilization of municipal solid waste.
- 31. Urbanization, city-forming factors. Features of forming of the environment in the cities. Environmentalproblems.
- 32. Planning of the inhabited places. Types. The choice of the place for the settlement.
- 33. Functional zoning of the city. Systems of building of streets.
- 34. Hygienic aspects of improvement of the cities, role of green plantings.
- 35. Features of planning of the rural inhabited places.
- 36. Planning of dwellings. Justification of norms of an area.
- 37. Hygiene of dwellings, microclimate, ventilation, lighting, heating. Hygieniccharacteristicoffinishingconstructionmaterials.
- 38. Hygienic requirements to natural lighting. Conditions on which the sufficiency of natural lighting depends.
- 39. Indicators of natural lighting. Method for determining. Norms.
- 40. Hygienic requirements to artificial lighting. Types, their comparative characteristic. Methods of assessment of artificial lighting. Norms.
- 41. Hygienic value of ventilation. Types. Systems. Aeration coefficient. Frequency rate of air exchange. Conditioning.
- 42. Classification of healthcare institutions. Placement of MPI depending on a profile of hospitals. Sizeandpercentagedistributionofthelandplot.
- 43. Zoning of the area of hospital. Systems of building of hospitals. Advantages and short comings of each option.
- 44. Hygienic requirements to reception. Placement. Tasks. Setofrooms.
- 45. Hygienic requirements to department, ward section. Setofrooms.
- 46. Hygienic requirements to wards, the area, the equipment, arrangement of furniture in ward. Microclimate, lighting, ventilation, aircube, heating.
- 47. Features of planning of children's hospitals.
- 48. System of sanitary hygienic actions for creation of the guarding mode and favorable conditions for stay of patients in medical institution.
- 49. Hygienic requirements to placement, planning, the equipment of hospital catering departments. Sanitarymode.
- 50. Value and functions of food for human health. Main questions of hygiene of food.
- 51. Hygienic bases of a balanced diet. Requirementstofood.
- 52. Physiological norms of food for various groups of the population. Quantity and goodness, full value, balance of food. The diseases connected with disturbance of food. Theirprevention.
- 53. Biological role of proteins, sources, norms.
- 54. Biological role of fats, sources, norms.
- 55. Biological role of carbohydrates, sources, norms.
- 56. Biological role of oil-soluble vitamins, sources, norms.
- 57. Biological role of water-soluble vitamins, sources, norms.
- 58. Biological role of mineral substances, sources, norms, macro and microelements.
- 59. Methods of sanitary examination and hygienic assessment of quality of foodstuff.

- 60. Nutrition and biological value of grain and bean products. Methods of a research of flour and bread.
- 61. Nutrition and biological value of milk. Epidemiological value of milk. Methods of a research and assessment of quality of milk.
- 62. Nutrition and biological value of meat. Epidemiological value of meat. Methods of a research of assessment of quality of meat.
- 63. Value of conservation. Hygienic characteristic of methods of conservation. Hygienicassessmentofcannedfoodandconcentrates.
- 64. Food poisonings, their classification. Food poisonings of bacterial origin.
- 65. Food poisonings not of bacterial origin. Prevention.
- 66. Occupational health. The main questions studied by occupational health. Theresearchmethodsusedinoccupationalhealth.
- 67. Production harm (classification), occupational diseases. Hygienic regulation of factors of the production environment.
- 68. Work physiology. Exhaustion, overfatigue, fatigue. Prevention.
- 69. Dust (classification). The enterprises with the high level of dust content. Effect of dust on an organism. Methods of definition and assessment. Devices. Preventionofdust diseases.
- 70. Noise definition. Characteristic. The enterprises with high noise level. Action of noise on an organism. Devices. Prevention of an adverse effect of noise on an organism.
- 71. Vibration definition. Characteristic. Productions with the high level of vibration. Action of vibration on an organism. Devices. Prevention of harmful action of vibration on an organism.
- 72. Microclimate definition. Types of a microclimate (enterprise). Complex influence of a microclimate on an organism. The microclimate parameters promoting overheating and overcooling of an organism. Prevention.
- 73. The forced position of a body, overstrain of separate bodies and systems, prevention of diseases, related.
- 74. Occupationalinjuries, reasons. Prevention.
- 75. Industrial poisons and professional poisonings. The general patterns of effect of industrial poisons (ways of penetration, a manifestation form, the factors defining effect of poisons.
- 76. Professional poisonings with carbon monoxide, lead, mercury. Enterprises. Clinic. Prevention.
- 77. Occupational health of doctors of various specialties (surgeons, therapists).
- 78. Occupationalhealthinagriculture.
- 79. Radioactivity. Characteristic of main types of radoactive radiations. Biological effect of ionizing radiation.
- 80. Principles of hygienic rationing and protection against radiation exposure.
- 81. Hygienic requirements to placement, planning and the equipment of radiological departments of hospital. Occupational health in radiological departments of hospital, laboratories and in radiological offices.
- 82. Physical development of children and teenagers. The factors influencing physical development. Indicatorsofphysicaldevelopment.
- 83. Methods of a research and assessment of physical development.
- 84. Assessment of physical development in sigmalny deviations, profile of physical development and on a regression scale.
- 85. Complex assessment of physical development.
- 86. Main patterns of growth and development of the child. Value.
- 87. Acceleration, reasons, value.
- 88. State of health of children and teenagers. The factors forming health. Criteria and groups of health.

Ministry of science and high education RF Ulyanovsk State University Faculty of Medicine named after Biktimirov T.Z., IMEiPC	Form	
F-Educational plan of the discipline		Corresponding

- 89. Hygienic requirements to placement, planning and the equipment of preschool institutions. Principlesofgroupandindividualisolation.
- 90. Hygienic requirements to planning and placement of schools. Hygienic requirements to school furniture.
- 91. Day regimen a concept. Types of a day regimen. Physiological bases. The main components of a day regimen depending on age of children and teenagers. Hygieneofeducational process.
- 92. Hygienic bases of physical training. Medical groups for physical education classes.
- 93. Nutritional supplements. Definition and classification. Safety of nutritional supplements. Characteristic of nutritional supplements on the chemical composition and impact on an organism. Conditionsofapplicationofnutritional supplements.
- 94. Hygienic principles of a healthy lifestyle. Personal hygiene as part of public hygiene.
- 95. Hygiene of a body and skin. Hygienic characteristic of care products for skin.
- 96. Hygiene of teeth and oral cavity. Hygienic characteristic of care products for teeth and oral cavity.
- 97. Hygienic requirements to clothes, footwear as means of protection from adverse environmental factors in various climatic conditions. Hygieniccharacteristicofnaturalandartificialmaterials.
- 98. Hardening of an organism. Value, basic principles.
- 99. Methods of hardening.

9.2.List of questions to offset

- 1. Subject and content of hygiene Sanitation.
- 2. History of formation and development of hygiene. Founders of hygienic science.
- 3. Methods of hygienic researches.
- 4. Ecology. Modern environmental problems.
- 5. Physical properties of air and their value for an organism. Influence on an organism of high and low temperatures. Overheating, overcooling. Prevention measures. The devices used to determination of temperature. Norms
- 6. Influence of atmospheric pressure upon an organism. High-rise, mountain, caisson disease. The devices used to measurement of barometric pressure.
- 7. Physiologic and hygienic value of air humidity. Types of humidity. The devices used to determination of air humidity. Norms.
- 8. Influence on an organism of the movement of air. The devices used to definition of the direction and measurement of speed of the movement of air. Norms. "Wind rose", its value.
- 9. Electric condition of the atmosphere (air ionization, electric field of Earth, electromagnetic field, geomagnetic field, their hygienic value).
- 10. Gas composition of atmospheric air. Hygienic value of its separate components.
- 11. Hygienic value of carbonic acid. Maximum allowable concentration of carbon dioxide.
- 12. An air cube, calculation of an air cube, norm of a cubic capacity.
- 13. Pollution of atmospheric air. Polluters of atmospheric air. Degree of danger of industrial emissions to the environment and state of health of the population. Protection of atmospheric air, main nonconsumptive actions and their hygienic efficiency.
- 14. Solar radiation and its hygienic value. Hygienic value of separate parts of a solar range.
- 15. Biological effect of an ultra-violet part of a solar range depending on length of waves. Ultra-violet insufficiency, its manifestation. Prevention.
- 16. Climate a formulation. Climatic factors. Weather a formulation. The factors defining weather. Seasonal diseases and meteopatic reactions. Prevention.

Ministry of science and high education RF Ulyanovsk State University Faculty of Medicine named after Biktimirov T.Z., IMEiPC	Form	
F-Educational plan of the discipline		Corresponding

- 17. Physiological, hygienic, epidemiological value of water.
- 18. The diseases connected with change of salt and microelement composition of water.
- 19. Water supply sources, their comparative hygienic characteristic.
- 20. Reasons of anthropogenic pollution of reservoirs. Water self-cleaning.
- 21. Indicators of bacterial pollution of water (bacteriological, chemical).
- 22. Hygienic requirements to water quality. Hygienic requirements to quality of a source of water supply.
- 23. Hygienic characteristic of methods of improvement of water quality. Water purification.
- 24. Hygienic characteristic of methods of improvement of water quality. (Disinfecting).
- 25. Hygienic characteristic of a local and centralized system of water supply.
- 26. Zones of sanitary protection of water sources. Norms of water consumption.
- 27. Hygienic value of the soil, structure, properties of the soil.
- 28. Communication of health of the population with soil conditions. Sources and nature of pollution of the soil. Self-cleaning of the soil.
- 29. Collecting, removal, disinfecting of a liquid garbage.
- 30. Collecting, removal, utilization of municipal solid waste.
- 31. Urbanization, city-forming factors. Features of forming of the environment in the cities. Environmental problems.
- 32. Planning of the inhabited places. Types. The choice of the place for the settlement.
- 33. Functional zoning of the city. Systems of building of streets.
- 34. Hygienic aspects of improvement of the cities, role of green plantings.
- 35. Features of planning of the rural inhabited places.
- 36. Planning of dwellings. Justification of norms of a cubic capacity and area.
- 37. Hygiene of dwellings, microclimate, ventilation, lighting, heating. Hygienic characteristic of finishing construction materials.
- 38. Hygienic requirements to natural lighting. A condition on which the sufficiency of natural lighting depends.
- 39. Indicators of natural lighting. Method for determining. Norms.
- 40. Hygienic requirements to artificial lighting. Types, their comparative characteristic.Methods of assessment of artificial lighting. Norms.
- 41. Hygienic value of ventilation. Types.Systems.Aeration coefficient.Frequency rate of air exchange.Conditioning.
- 42. Classification of healthcare institutions. Placement of MPI depending on a profile of hospitals. Size and percentage distribution of the land plot.
- 43. Zoning of the territory of hospital. Systems of building of hospitals. Advantages and shortcomings of each option.
- 44. Hygienic requirements to reception. Placement. Tasks. Set of rooms.
- 45. Hygienic requirements to department, ward section. Set of rooms.
- 46. Hygienic requirements to wards, the area, the equipment, arrangement of furniture in ward. Microclimate, lighting, ventilation, air cube, heating.
- 47. Features of planning of children's hospitals.
- 48. System of sanitary hygienic actions for creation of the guarding mode and favorable conditions for stay of patients in medical institution.
- 49. Hygienic requirements to placement, planning, the equipment of hospital catering departments. Sanitary mode.
- 50. Value and functions of food for human health. Main questions of hygiene of food.
- 51. Hygienic bases of a balanced diet. Requirements to food.
- 52. Physiological norms of food for various groups of the population. Quantity and goodness, full value, balance of food. The diseases connected with disturbance of food. Their prevention.

Ministry of science and high education RF Ulyanovsk State University Faculty of Medicine named after Biktimirov T.Z., IMEiPC	Form	
F-Educational plan of the discipline		CONTRACTOR

- 53. Biological role of proteins, sources, norms.
- 54. Biological role of fats, sources, norms.
- 55. Biological role of carbohydrates, sources, norms.
- 56. Biological role of oil-soluble vitamins, sources, norms.
- 57. Biological role of water-soluble vitamins, sources, norms.
- 58. Biological role of mineral substances, sources, norms, macro and microelements.
- 59. Methods of sanitary examination and hygienic assessment of quality of foodstuff.
- 60. Nutrition and biological value of grain and bean products. Methods of a research of flour and bread.
- 61. Nutrition and biological value of milk. Epidemiological value of milk. Methods of a research and assessment of quality of milk.
- 62. Nutrition and biological value of meat. Epidemiological value of meat. Methods of a research of assessment of quality of meat.
- 63. Value of conservation. Hygienic characteristic of methods of conservation. Hygienic assessment of canned food and concentrates.
- 64. Food poisonings, their classification. Food poisonings of bacterial origin (toxic infections, toxicoses). Mycotoxicosis. Prevention.
- 65. Food poisonings not of bacterial origin. Prevention.
- 66. Nutritional supplements. Definition and classification. Safety of nutritional supplements. Characteristic of nutritional supplements on the chemical composition and impact on an organism. Conditions of application of nutritional supplements.

10. SELF-STUDY WORK OF STUDENTS

Form of education: internal

Topics	Typeofindependentwork	Volum	Controlform
		einhou	
		rs	
Topic 1. History of formation and	study of a training material,	3	verification
development of hygiene. Subject,	report		reports, pass-fail
contents and problems of			test, examination
hygiene.			
Methodsofhygienicresearches.			
Topic 2. Climate and health.	study of a training material,	6	verification of
Hygienic problems of adaptation	report		reports, pass-fail
and acclimatization.			test, examination
Topic 3. Modern environmental	study of a training material,	6	verification of
problems. Ecology and human	report		reports, pass-fail
health.			test, examination
Topic 4. Nutrientadditives:	study of a training material,	2	verification of
classification, characteristics,	report		reports
requirements.			
Topic 5. Features of nutrition of	study of a training material,	4	verification of
pregnant women and feeding	report		reports
Topic 6. Features of nutrition of	study of a training material,	6	verification of
children of early age.	report		reports
omitation of early age.			

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Topic 7. Preschool and school	study of a training material,	6	verification of
feeding.	report		reports
Topic 8. Features of nutrition of	study of a training material,	6	verification of
elderly people.	report		reports
Topic 9. Features of planning of	study of a training material,	6	verification
specialized departments of	report		ofreports
hospitals.			
Topic 10. Features of professional	study of a training material,	6	verification of
activity of doctors of various	report		reports
specialties.	1		1
•	study of a training material,	4	verification of
Topic 11. Radiological	report		reports
departments. The organization of	1		1
radiation safety during the work			
with the opened and closed			
sources.			
Tania 12 Harriania accessment of	study of a training material,	4	verification of
Topic 12. Hygienic assessment of toxicity of industrial	report		reports,
3	1		examination
poisons. Hygienic assessment of			
electromagnetic radiations.			
Topic 13. Occupational health in	study of a training material,	6	verification of
agriculture.	report		reports,
agriculture.			examination
Topic 14.	study of a training material,	4	verification of
Occupational injuries. Reasons,	report		reports,
prevention.			examination
1			
Topic 15.	study of a training material,	6	verification of
Healthy lifestyle and questions of	report		reports,
personal hygiene. Hygienic			examination
requirements to clothes and			
footwear. Hygienic assessment of			
natural and artificial materials.			
Hygienic requirements to skin,			
hair and oral cavity care products.			

11. EDUCATIONAL-METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

a) List of recommended literature

main literature:

1.Educational and methodological textbook for practical classes on hygiene [Электронныйресурс] / Shashina E.A., Makarova V.V. - М.: ГЭОТАР-Медиа, 2020. Режимдоступа:

Form



http://client.studentlibrary.ru/book/ISBN9785970452899.html

2.Oslopov V.N., General Care of a Patient / Oslopov V.N., Bogoyavlensk ГЭОТАР-Медиа, 2019. - 208 с. - ISBN 978-5-9704-5234-9 - Текст : элек "Консультант студента" : [сайт]. - URL :

https://www.studentlibrary.ru/book/ISBN9785970452349.html

3.Popova N.R., Environmental Analytical Control of Atmospheric Air: Study N.R., Bogolitsyn K.G., Ivanchenko N.I. - Архангельск : ИД САФУ, 2015. - 101087-6 - Текст : электронный // ЭБС "Консультант студента" : [о https://www.studentlibrary.ru/book/ISBN9785261010876.html

additional literature:

1.Mullner, Ross M Health and Medicine.; Sage Publications, inc. Series: The Series on Disability: Key Issues and Future Directions, Vol. 1. Thousand Oal Publications, Inc. 2011. eBook.

http://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=474468live&ebv=EB&ppid=pp_Cover

- 2.Косцова Н.Г., Основы ухода за пациентом в хирургической клинике = Е Саге in Surgery: учебное пособие на русском и английском языках Бадретдинова А.И., Тигай Ж.Г. [и др.] М.: ГЭОТАР-Медиа, 2020. 312 9704-5383-4 Текст: электронный // ЭБС "Консультант студента": [сайт]. https://www.studentlibrary.ru/book/ISBN9785970453834.html.
- 3. Katz, David L. Friedman, Rachel S. C. Lucan, Sean C. Nutrition in Clinical edition. Place of publicati[on not identified]: Wolters Kluwer http://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=1473231ive

educational and methodical literature:

- 1.Makhova, N. A. Laboratory manual of hygiene for foreign medical students / Zayneeva R. Sh., M. B. Niezmykhamedova; Ulyanovsk State University, Insi Ecology and Physical culture. Электрон. текстовые дан. (1 файл: 451 KI ULSU, 2017. Текст на англ. яз. Загл. с экрана. Текст http://lib.ulsu.ru/MegaPro/Download/MObject/935
- 2. Alabina E. V. Methodical instructions for independent work of students on dis "Hygiene" for specialty 05.31.01 "General Medicine" / E. V. Alabina; Ulyanovs

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c) Professional databases, directory systems

1. Electronic and library systems:

- 1.1. IPRbooks: electronic and library system: IP Ar Media website / group of companies. Saratov, [2020]. URL: http://www.iprbookshop.ru. Access mode: for zaregistrir. users. Text: electronic.
- 1.2. YuRAYT: electronic and library system: Website / LLC YuRAYT E-publishing house. Moscow, [2020]. URL: https://www.biblio-online.ru. Access mode: for zaregistrir. users. Text: electronic.
- 1.3. Student's consultant: electronic and library system: Website / LLC Politekhresurs. Moscow, [2020]. URL: http://www.studentlibrary.ru/catalogue/switch_kit/x2019-128.html. Access mode: for zaregistrir. users. Text: electronic.
- 1.4. Fallow deer: electronic and library system: Website / LLC EBS Lan. St. Petersburg, [2020]. URL: https://e.lanbook.com. Access mode: for zaregistrir. users. Text: electronic.
- 1.5. **Znanium.com:** electronic and library system: Website / LLC Znanium. Moscow, [2020]. URL: http://znanium.com. Access mode: for zaregistrir. users. Text: electronic.
- 1.6. Clinical Collection: a collection for the medical universities, clinics, medical libraries//EBSCOhost: [portal]. URL: http://web.a.ebscohost.com/ehost/search/advanced?vid=1&sid=e3ddfb99-a1a7-46dd-a6eb-2185f3e0876a%40sessionmgr4008. Access mode: for autocopes. users. Text: electronic.
- **2.** ConsultantPlus [Electronic resource]: help legal system. / LLC Konsultant Plus the Electron. given. Moscow: ConsultantPlus, [2020].

3. Databases of periodicals:

- 3.1. Database of periodicals: IVIS online magazines / Ltd companies. Moscow, [2020]. URL: https://dlib.eastview.com/browse/udb/12. Access mode: for autocopes. users. Text: electronic.
- 3.2. **eLIBRARY.RU:** scientific electronic library: Website / LLC NauchnayaElektronnayaBiblioteka. Moscow, [2020]. URL: http://elibrary.ru. Access mode: for autocopes. users. Text: electronic
- 3.3. "Grebennikon": electronic library / IDES Grebennikov. Moscow, [2020]. URL: https://id2.action-media.ru/Personal/Products. Access mode: for autocopes. users. Text: electronic.
- **4. National electronic library**: electronic library: federal state information system: website / the Ministry of Culture of the Russian Federation; RGB. Moscow, [2020]. URL: https://нэб.рф. Access mode: for users of scientific library. Text: electronic.
- **5.** SMART Imagebase//EBSCOhost: [portal]. URL: https://ebsco.smartimagebase.com/?TOKEN=EBSCO-1a2ff8c55aa76d8229047223a7d6dc9c&custid=s6895741. Access mode: for autocopes. users. Image: electronic.

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6. Federal information and education portals:

- 6.1. Uniform window of access to educational resources: federal DPC founder TSRGOP and IT. URL: http://window.edu.ru/. Text: electronic.
- 6.2. Russian education: federal DPO FGAOU portal / founder TSRGC http://www.edu.ru. Text: electronic.

7. ULSU educational resources:

- 7.1. ULSU electronic library: module ABIS Mega-missile Defence / LL URL: http://lib.ulsu.ru/MegaPro/Web. Access mode: for users of scientifi electronic.
- 7.2. ULSU educational portal. URL: http://edu.ulsu.ru. Access m users. Text: electronic.

Coordinated:

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Full name

12. MATERIAL TECHNICAL SUPPORT OF DISCIPLIN

For training the following material support is used: educational audic out a practical training and individual consultations, the current control certification with a set of the demonstration equipment for ensuring representa material for discipline according to the working program.

The room is completed with a set of student furniture.

Technical means:

- 1. Classroom board.
- 2. Workplace of the teacher.

13. SPECIAL CONDITIONS FOR STUDENTS W. OPPORTUNITIES OF HEALTH

Training students with disabilities is carried out taking into account the psychophysical development, individual capabilities and health of such studestudents with disabilities can be organized in conjunction with other students, necessary, students from among persons with disabilities (at the request of the offered one of the following options for the perception of information, taking individual psychophysical characteristics:

• for persons with visual impairment: in printed form in large print; in the for document; in the form of an audio file (translation of educational materials i

Ministry of science and high education RF Ulyanovsk State University Faculty of Medicine named after Biktimirov T.Z., IMEiPC	Form	(1)
F-Educational plan of the discipline		Perconsul

• individual psychological characteristics

Разработчик

Алабина Е.В.

ФИО

Ministry of science and high education RF	
Ulyanovsk State University	
Faculty of Medicine named after Biktimirov T.Z., IMEiP	C

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F-Educational plan of the discipline

LIST OF CHANGES of

Educational plan of discipline "Hygiene" "

Speciality 31.05.01. «General medicine»

No	Content of the change or a link to the attached text of the	Full name of the head of the Department developing the discipline	Signature	Date
1	Introduction of changes to item C) Professional databases, information and reference systems item 11 "Educational,methodological and information support of the discipline" with the design of Appendix 1	. Горбунов В.И.	B	29.08.2022
2	Introduction of changes to item A) Recommended Literature item 11 "Educational,methodological and information support of the discipline" with the design of Appendix 2			29.08.2022

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F-Educational plan of the discipline

Приложение1

11. EDUCATIONAL AND METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

a) List of recommended literature main literature:

1. Melnichenko, P. I. Hygiene: textbook / ed. Melnichenko P. I. - Москва: ГЭОТАР-Медиа, 2021. - 512 с. - ISBN 978-5-9704-5919-5. - Текст: электронный // ЭБС "Консультант студента": [сайт]. - URL: https://www.studentlibrary.ru/book/ISBN9785970459195.html 2.PopovaN.R., EnvironmentalAnalyticalControlofAtmosphericAir: StudyGuide / PopovaN.R., BogolitsynK.G., IvanchenkoN.I. - Архангельск: ИДСАФУ, 2015. - ISBN 978-5-261-01087-6-Текст: электронный // ЭБС "Консультантстудента": [сайт]. - URL: https://www.studentlibrary.ru/book/ISBN9785261010876.html

additional literature:

- 1. Katz, David L. Friedman, Rachel S. C. Lucan, Sean C. Nutrition in Clinical Practice.-Third edition. Place of publicati[on not identified]: Wolters Kluwer Health. 2014 http://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=1473233&site=ehost-live
- 2.Makhova, N. A. Laboratory manual of hygiene for foreign medical students / N. A. Makhova, Zayneeva R. Sh., M. B. Niezmykhamedova; Ulyanovsk State University, Insitute of Medicine, Ecology and Physical culture. Электрон. текстовыедан. (1 файл: 451 КБ). Ulyanovsk: ULSU, 2017. Текст на англ. яз. Загл. с экрана. Текст: электронный http://lib.ulsu.ru/MegaPro/Download/MObject/935
- 3.Educational and methodological textbook for practical classes on hygiene [Электронныйресурс] / Shashina E.A., Makarova V.V. М.: ГЭОТАР-Медиа, 2020. Режимдоступа: http://studentlibrary.ru/book/ISBN9785970452899.html
- 4.Air hygiene: study guide to practical lessons on general hygiene for foreign medical students / E. V. Alabina, V. P. Demin, A. V. Demin, M. B. Niezmykhamedova; Ulyanovsk State University, Insitute of Medicine, Ecology and Physical culture. Ulyanovsk: UlSU, 2020. 56 р. Наангл. яз.; Загл. сэкрана. Электрон. текстовыедан. (1 файл: 808 КБ). Режимдоступа: ЭБСУлГУ. Текст: электронный.http://lib.ulsu.ru/MegaPro/Download/MObject/8788

educational and methodical literature:

1. Alabina E. V. Methodological instructions on the organization of independent work of students in the discipline "Hygiene" for the specialty 31.05.01 "General medicine" / E. V. Alabina. - Ulyanovsk :UlSU, 2022. - Неопубликованный ресурс. - URL: http://lib.ulsu.ru/MegaPro/Download/MObject/11495. - Режимдоступа: ЭБСУлГУ. - Текст :электронный.

Coordinated:

/Chief librarian of SL UISU/ Stadolnikova D.R./
Position of the employee of scientific libraryFull namesignature

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Приложение 2

c) Professional databases, directory systems

1. Electronic and library systems:

1.

Электронно-библиотечные системы:

- 1.1. Цифровой образовательный ресурс IPRsmart: электронно-библиотечная система:сайт/ ООО Компания «Ай Пи Ар Медиа». Саратов, [2022]. URL: http://www.iprbookshop.ru. Режим доступа: для зарегистрир. пользователей. Текст : электронный.
- 1.2. Образовательная платформа ЮРАЙТ : образовательный ресурс, электронная библиотека : сайт / ООО Электронное издательство ЮРАЙТ. Москва, [2022]. URL: https://urait.ru. Режим доступа: для зарегистрир. пользователей. Текст : электронный.
- 1.3. Консультант врача. Электронная медицинская библиотека : база данных : сайт / ООО Высшая школа организации и управления здравоохранением-Комплексный медицинский консалтинг. Москва, [2022]. URL: https://www.rosmedlib.ru. Режим доступа: для зарегистрир. пользователей. Текст:электронный.
- 1.4. Большая медицинская библиотека : электронно-библиотечная система : сайт / OOO Букап. Томск, [2022]. URL: https://www.books-up.ru/ru/library/. Режим доступа: для зарегистрир. пользователей. Текст:электронный.
- 1.5. ЭБС Лань : электронно-библиотечная система : сайт / ООО ЭБС Лань. Санкт-Петербург, [2022]. URL: https://e.lanbook.com. Режим доступа: для зарегистрир. пользователей. Текст:электронный.
- 1.6. ЭБС Znanium.com: электронно-библиотечная система:сайт/ ООО Знаниум. Москва, [2022]. URL: http://znanium.com. Режим доступа : для зарегистрир. пользователей. Текст : электронный.
- 1.7. ClinicalCollection: научно-информационная база данных EBSCO// EBSCOhost: [портал]. URL: http://web.b.ebscohost.com/ehost/search/advanced?vid=1-8sid=9f57a3-el-1191-414b-8763-e97828f9f7el%-040sessionmgrl02. Режим доступа:дляавториз. пользователей. Текст: электронный.
- 1.8. База данных «Русский как иностранный» : электронно-образовательный ресурс для иностранных студентов : сайт / ООО Компания «Ай Пи Ар Медиа». Саратов, [2022]. URL: https://ros-edu.ru. Режим доступа: для зарегистрир. пользователей. Текст : электронный.
- **2. КонсультантПлюс**[Электронный ресурс]: справочная правовая система. /ООО «Консультант Плюс» Электрон, дан. Москва:КонсультантПлюс, [2022].

3. Базы данных периодических изданий:

3.1. База данных периодических изданий EastView: электронные журналы / ООО ИВИС. - Москва, [2022]. - URL: https://dlib.eastview.com/browse/udb/12. - Режим доступа:дляавториз. пользователей. - Текст:электронный.

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- 3.2. eLIBRARY.RU: научная электронная библиотека : сайт / ООО Научная Электронная Библиотека. Москва, [2022]. URL: http://elibrary.ru. Режим доступа:дляавториз. пользователей. Текст : электронный
- 3.3. Электронная библиотека «Издательского дома «Гребенников» (Grebinnikon): электронная библиотека / ООО ИД Гребенников. Москва, [2022]. URL: https://id2.action-media.ru/Personal/Products. Режим доступа : для авториз. пользователей. Текст : электронный.
- **4.** Федеральная государственная информационная система «Национальная электронная библиотека» : электронная библиотека : сайт / ФГБУ РГБ. Москва, [2022]. URL: Ьйрз://нэб.рф. Режим доступа : для пользователей научной библиотеки. Текст : электронный.
- **5. SMARTImagebase:** научно-информационная база данных EBSCO// EBSCOhost: [портал].—URL: https://ebsco.smartimagebase.com/7TOKENMEBSCO-

 $\underline{1a2ff8c55aa76d8229047223a7d6dc9c\&custid=s6895741}$. - Режим доступа : для авториз. пользователей. - Изображение : электронные.

- 6. Федеральные информационно-образовательные порталы:
- 6.1. Единое окно доступа к образовательным ресурсам : федеральный портал . URL: http://window.edu.ru/. Текст : электронный.
- 6.2. Российское образование : федеральный портал / учредитель ФГАУ «ФИЦТО». URL: http://www.edu.ru. Текст : электронный.
- 7. Образовательные ресурсы УлГУ:
- 7.1. Электронная библиотечная система УлГУ:модуль «Электронная библиотека» АБИС Мега-ПРО / ООО «Дата Экспресс». URL: http://lib.ulsu.ru/MegaPro/Web. Режим доступа:для пользователей научной библиотеки. Текст : электронный.

Согласовано:		mz		
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Должность сотрудника УИТиТ	ФИО	подпись	дата	

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LIST OF CHANGES of Educational plan of discipline "Hygiene" Speciality 31.05.01. «General medicine»

Nº	Content of the change or a link to the attached text of the	Full name of the head of the Department developing the discipline	Signature	Date
1	Introduction of changes to item C) Professional databases, information and reference systems item 11 "Educational,methodological and information support of the discipline" with the design of Appendix 1	1 3		02.06.2023
2	Introduction of changes to item A) Recommended Literature item 11 "Educational,methodological and information support of the discipline" with the design of Appendix 2	Горбунов В.И.		02.06.2023

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Приложение 1

11. EDUCATIONAL AND METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

a) List of recommended literature main literature:

1. Melnichenko, P. I. Hygiene: textbook / ed. Melnichenko P. I. - Москва: ГЭОТАР-Медиа, 2021. - 512 с. - ISBN 978-5-9704-5919-5. - Текст: электронный // ЭБС "Консультант студента": [сайт]. – URL: https://www.studentlibrary.ru/book/ISBN9785970459195.html 2.PopovaN.R., EnvironmentalAnalyticalControlofAtmosphericAir: StudyGuide / PopovaN.R., BogolitsynK.G., IvanchenkoN.I. - Архангельск: ИДСАФУ, 2015. - ISBN 978-5-261-01087-6-Текст: электронный // ЭБС "Консультантстудента": [сайт]. - URL: https://www.studentlibrary.ru/book/ISBN9785261010876.html

additional literature:

1.Makhova, N. A. Laboratory manual of hygiene for foreign medical students / N. A. Makhova, Zayneeva R. Sh., M. B. Niezmykhamedova; Ulyanovsk State University, Insitute of Medicine, Ecology and Physical culture. - Электрон. текстовыедан. (1 файл : 451 КБ). - Ulyanovsk :ULSU, 2017. - Текст на англ. яз. - Загл. с экрана. - Текст : электронный http://lib.ulsu.ru/MegaPro/Download/MObject/935

2.Educational and methodological textbook for practical classes on hygiene [Электронныйресурс] / Shashina E.A., Makarova V.V. - М.: ГЭОТАР-Медиа, 2020. Режимдоступа: http://studentlibrary.ru/book/ISBN9785970452899.html

3. Air hygiene: study guide to practical lessons on general hygiene for foreign medical students / E. V. Alabina, V. P. Demin, A. V. Demin, M. B. Niezmykhamedova; Ulyanovsk State University, Insitute of Medicine, Ecology and Physical culture. - Ulyanovsk: UlSU, 2020. - 56 р. - Наангл. яз.; Загл. сэкрана. - Электрон. текстовыедан. (1 файл: 808 КБ). - Режимдоступа: ЭБСУлГУ. - Текст: электронный.http://lib.ulsu.ru/MegaPro/Download/MObject/8788

educational and methodical literature:

1. Alabina E. V.

Methodological instructions on the organization of independent work of students in the discipline "Hygiene" for the specialty 31.05.01 "General medicine" / E. V. Alabina. - Ulyanovsk :UISU, 2022. - Неопубликованный ресурс. - URL:

http://lib.ulsu.ru/MegaPro/Download/MObject/11495. - Режимдоступа: ЭБСУлГУ. - Текст :электронный.

Coordinated:

/Chief librarian of SL UlSU/ Stadolnikova D.R./
Position of the employee of scientific libraryFull namesignature

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Приложение 2

Профессиональные базы данных, информационно-справочные системы

1. Электронно-библиотечные системы:

- 1.1. Цифровой образовательный ресурс IPRsmart : электронно-библиотечная система : сайт / ООО Компания «Ай Пи Ар Медиа». Саратов, [2023]. URL: http://www.iprbookshop.ru. Режим доступа: для зарегистрир. пользователей. Текст : электронный.
- 1.2. Образовательная платформа ЮРАЙТ : образовательный ресурс, электронная библиотека : сайт / ООО Электронное издательство «ЮРАЙТ». Москва, [2023]. URL: https://urait.ru. Режим доступа: для зарегистрир. пользователей. Текст : электронный.
- 1.3. База данных «Электронная библиотека технического ВУЗа (ЭБС «Консультант студента») : электронно-библиотечная система : сайт / ООО «Политехресурс». Москва, [2023]. URL: https://www.studentlibrary.ru/cgi-bin/mb4x. Режим доступа: для зарегистрир. пользователей. Текст : электронный.
- 1.4. Консультант врача. Электронная медицинская библиотека : база данных : сайт / ООО «Высшая школа организации и управления здравоохранением-Комплексный медицинский консалтинг». Москва, [2023]. URL: https://www.rosmedlib.ru. Режим доступа: для зарегистрир. пользователей. Текст : электронный.
- 1.5. Большая медицинская библиотека : электронно-библиотечная система : сайт / OOO «Букап». Томск, [2023]. URL: https://www.books-up.ru/ru/library/. Режим доступа: для зарегистрир. пользователей. Текст : электронный.
- 1.6. ЭБС Лань : электронно-библиотечная система : сайт / ООО ЭБС «Лань». Санкт-Петербург, [2023]. URL: https://e.lanbook.com. Режим доступа: для зарегистрир. пользователей. Текст : электронный.
- 1.7. ЭБС Znanium.com : электронно-библиотечная система : сайт / ООО «Знаниум». Москва, [2023]. URL: http://znanium.com . Режим доступа : для зарегистрир. пользователей. Текст : электронный.
- **2. КонсультантПлюс** [Электронный ресурс]: справочная правовая система. / ООО «Консультант Плюс» Электрон. дан. Москва : КонсультантПлюс, [2023].

3. Базы данных периодических изданий:

- 3.1. eLIBRARY.RU: научная электронная библиотека: сайт / ООО «Научная Электронная Библиотека». Москва, [2023]. URL: http://elibrary.ru. Режим доступа: для авториз. пользователей. Текст: электронный
- 3.2. Электронная библиотека «Издательского дома «Гребенников» (Grebinnikon) : электронная библиотека / ООО ИД «Гребенников». Москва, [2023]. URL: https://id2.action-media.ru/Personal/Products. Режим доступа : для авториз. пользователей. Текст : электронный.
- **4.** Федеральная государственная информационная система «Национальная электронная библиотека» : электронная библиотека : сайт / ФГБУ РГБ. Москва, [2023]. URL: https://нэб.рф. Режим доступа : для пользователей научной библиотеки. Текст : электронный.
- **5. Российское образование** : федеральный портал / учредитель ФГАУ «ФИЦТО». URL: http://www.edu.ru. Текст : электронный.
- **6.** Электронная библиотечная система УлГУ: модуль «Электронная библиотека» АБИС Мега-ПРО / ООО «Дата Экспресс». URL: http://lib.ulsu.ru/MegaPro/Web. Режим доступа: для пользователей научной библиотеки. Текст: электронный.

Согласовано:			2		
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