

Federal State Autonomous Educational Institution of Higher Education
«Peoples' Friendship University of Russia»

Medical Institute

Recommended MCSD

SYLLABUS
(STUDY GUIDE)

Subject

Hygiene

Recommended for the direction of training (specialty)

31.05.01 General Medicine

Program (profile, specialization)

General Medicine

1. Aims and objectives of the discipline:

Aims of the discipline:

1. Mastering the theoretical foundations of all sections of the hygienic science and practical skills in sanitation.
2. Formation of students of preventive thinking.
3. To provide students with information for mastering the methodology of preventive medicine, acquiring hygienic knowledge and skills in assessing the influence of environmental factors on human and population health

Objectives of the discipline:

Combine elements of primary and secondary prophylaxis in the medical activity of a graduate, form a system of thinking and actions in the therapeutic and diagnostic process, aimed at establishing the links between detectable changes in health status and environmental factors.

To provide knowledge and skills for solving professional problems of diagnosing health at the individual and population levels using evidence-based medicine techniques and risk assessment paradigm elements, to participate in the development of evidence-based therapeutic and preventive measures, promoting healthy lifestyles, and using environmental factors environment for recreational purposes.

2. Place of discipline in the structure of the educational program

The discipline "Hygiene" refers to the basic part of block 1 of the curriculum.

Table 1 shows the preceding and subsequent disciplines aimed at the formation of the competences of the discipline in accordance with the matrix of competencies of the OP VO.

Table1

Prior and subsequent disciplines aimed at the formation of competencies

Nº	Code and name of competence	Prior disciplines	Subsequent disciplines (groups of disciplines)
Universal Competencies			
1.	UC-1: UC-1.1; UC-1.2.	Mathematics. Philosophy. Anatomy. Physics.	Public health and health care, health economics. Infectious diseases. Faculty therapy. Epidemiology. Phthisiology.
General professional competencies			
1.	GPC-2: GPC-2.1; GPC-2.2; GPC-2.3.	Biology.	Outpatient therapy. Medical rehabilitation.

2.	GPC-11: GPC-11.2.	Physics.	Pharmacology. Public health and health care, health economics.
Professional Competencies (type of professional activity)			
1.	PC-5: PC-5.6; PC-5.10; PC-5.11.		Epidemiology. Urology. Infectious diseases. Phthisiology. Hospital surgery, pediatric surgery. Pediatrics. Evidence-based medicine. Endoscopic urology. Allergology.

3. Requirements for the results of mastering the discipline

The process of studying the discipline is aimed at the formation of the following competencies:

Competencies	Competency name	Competency achievement indicator
UC-1	Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy	UC-1.1. Analysing scientific and technical literature and regulatory documents of medical institutions. UC-1.2. Assessing in a critical way the reliability of information sources, working with contradictory information from different sources.
GPC-2	Being able to monitor the effectiveness of preventive measures, healthy lifestyle formation and sanitary and hygienic education of the population	GPC-2.1. Being able to analyse the awareness of the population of a healthy lifestyle and medical literacy. GPC-2.2. Being able to develop a plan of organizational and methodical measures aimed at increasing the awareness of the population of a healthy lifestyle, its literacy concerning disease prevention issues. GPC-2.3. Being able to prepare an oral presentation or a printed text which promote a healthy lifestyle and increase the population's literacy concerning disease prevention issues.
GPC-11	GPC-11. Being able to prepare and apply scientific, research, development and production, design, organizational, management and regulatory documentation in the healthcare system	GPC-11.2. Being able to apply scientific, research, development and production, design, organizational, management and regulatory documentation within the framework of their professional activities.
PC-5	Being able to carry out preventive measures	PC-5.6. Being able to monitor observing preventive measures.

	and measures to promote a healthy lifestyle and sanitary and hygiene education among population and monitor their effectiveness	PC-5.10. Being able to develop healthy lifestyle programs, including the ones to reduce alcohol and tobacco consumption, prevent and combat non-medical use of narcotic drugs and psychotropic substances. PC-5.11. Being able to assess the effectiveness of preventive patient care.
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As a result of studying the discipline, the student must:

Know:

Fundamentals of the legislation of the Russian Federation on the protection of public health, the main regulatory and technical documents;

Fundamentals of legislation on the sanitary and epidemiological welfare of the population, the main official documents regulating anti-epidemiological services for the population with infectious and parasitic diseases; regulatory documents on the prevention of nosocomial infections;

Population health indicators, factors shaping human health (environmental, occupational, climatic, endemic, social, epidemiological, psycho-emotional, occupational, genetic);

Diseases associated with the adverse effects of climatic and social factors;

Hygienic aspects of nutrition, hygiene of medical organizations, hygienic problems of health care for the working population;

Basics of preventive medicine, the organization of preventive measures aimed at improving the health of the population;

Methods of sanitary education;

Epidemic process and non-infectious epidemiology, epidemiology of infectious and parasitic diseases, implementation of anti-epidemic measures, protection of the population in the centers of especially dangerous infections, with a deterioration of the radiation situation and natural disasters;

Etiology, pathogenesis and prevention measures for the most common diseases;

Modern classification of diseases;

Principles of clinical examination of the population;

Isolation rules for hospitalization of infectious patients, sanitary and hygienic requirements for the device, organization of work and the regime of infectious diseases hospitals, departments, boxes.

Be able to:

Plan, analyze and evaluate the quality of medical care, the state of public health and the influence of environmental and production factors on it;

To participate in the organization and provision of treatment-and-prophylactic and sanitary-anti-epidemic assistance to the population, taking into account its socio-occupational and age-sex structure;

Perform preventive, hygienic and anti-epidemic measures;

Conduct environmental impact assessment and environmental forecasting of human activities;

Assess social factors affecting the patient's physical and psychological health: cultural, ethnic, religious, individual, family, social risk factors; make a preliminary diagnosis - to synthesize information about the patient in order to determine the pathology and the causes of it;

Use in primary therapy methods of primary and secondary prevention (based on evidence-based medicine), establish cause-effect relationships of changes in health status from exposure to environmental factors;

Carry out with the population of the attached site measures for the primary and secondary prevention of the most common diseases, take preventive measures to increase the body's resistance to adverse environmental factors using various methods of physical culture and sports, hardening, and promote a healthy lifestyle.

Own:

Public health assessments;

Interpretation of the results of laboratory, instrumental diagnostic methods;

Algorithm for making a preliminary diagnosis with the subsequent referral of the patient to the appropriate specialist doctor.

4. The scope of discipline and types of educational work

The total labor intensity of the discipline is 7 credit units.

Type of educational work	Total amount of hours	Semesters	
		4	5
Classroomactivities (total)	162	90	72
Including:	-	-	-
Lectures	18	18	
Laboratory work (LR)	144	72	72
Independent work (total)	90	54	36
Total labor intensity hours	252	144	108
credit units	7	4	3

5. The content of the discipline

5.1. The content of the discipline sections

№	The name of the section discipline	Section content (topics)
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1.	Theoretical and methodological foundations of the discipline "general hygiene". Public health and the environment	General hygiene as a science and subject of instruction; sanitation; organization, forms and stages of the state sanitary and anti-epidemic supervision. Public health and the environment as a combination of natural, man-made and social factors. Features of the effect on the body of harmful environmental factors. Hygienic regulation and forecasting.
2.	Air hygiene. Solar radiation.	Climate and human health. Hygienic aspects of acclimatization. The chemical composition of atmospheric air and its hygienic value. Solar radiation and its hygienic value.
3.	Hygienic problems of populated areas. Hygiene of residential and public buildings.	Hygienic assessment of the layout of populated areas. Home Hygiene. Hygienic assessment of indoor microclimate. Hygienic assessment of the chemical composition of indoor air. Hygienic evaluation of indoor microbial air pollution. Hygienic assessment of room lighting.
4.	Radiation hygiene	Radioactivity. Sources of radiation. Natural background radiation. Methods of radiometry of environmental objects. The dose of ionizing radiation. Dosimetry methods. Definition and hygienic assessment of radiation dose. Protection of the population from ionizing radiation.
5.	Nutrition and human health.	Hygienic basics of nutrition. Features of rational nutrition of various groups of the population. Hygienic bases of the organization of therapeutic nutrition. Dietary and preventive nutrition. Sanitary and hygienic examination of products. Nutritional and biological value of animal products. Sanitary and hygienic assessment of milk and dairy products. Nutritional and biological value and signs of spoilage of products of plant origin. Sanitary and hygienic examination of bread. Food preservation methods. Sanitary and hygienic examination of canned food and concentrates. Food safety. Food poisoning and their prevention. Sanitary and hygienic examination of projects of catering establishments.
6.	Hygiene water and water supply. Soil hygiene, cleaning of populated areas. Sanitary protection of water reservoirs.	Water as a factor of the environment, its hygienic and epidemiological significance. Hygienic assessment of water sources. Rationing of the qualitative composition of drinking water. Methods for cleaning, disinfection and methods for improving the quality of drinking water. Disinfection of drinking water under centralized water supply and in field conditions. The soil as a factor in the external environment. The role of soil in the transmission of endemic, infectious and parasitic diseases. Soil pollution and self-cleaning. Hygienic assessment of soil quality. Hygienic bases and requirements for cleaning populated areas. Sewage of populated areas and sanitary protection of water bodies.
7.	Occupational hygiene and prevention of worker health.	Basics of occupational hygiene and prevention of workers' health. The physiological basis of the labor process. Hygienic assessment and prevention of physical factors of the working environment. Hygienic assessment and

		prevention of the effect of industrial aerosols. Hygienic assessment and prevention of the influence of chemical and biological factors of the working environment. Occupational hygiene in agriculture. Occupational hygiene in the health care system.
8.	Features of the planning and functioning of preschool and school institutions. Hygiene of children and teenagers. Healthy lifestyle.	Hygienic assessment of the health and physical development of children and teenagers. Hygienic requirements for the layout, equipment, maintenance and operation of children's institutions. Healthy lifestyle and personal hygiene issues.
9.	Hygiene of medical organizations	Hospital hygiene. Features of structural and planning decisions of medical organizations. Prevention of nosocomial infections.

5.2. Sections of disciplines and types of activities

№	The name of the section of discipline	Lectures	Laboratory work	Independent work	Total hours
1.	Theoretical and methodological foundations of the discipline "general hygiene". Public health and the environment.	4	6	10	20
2.	Air hygiene. Solar radiation.	4	10	10	24
3.	Hygienic problems of populated areas. Hygiene of residential and public buildings.		10	10	20
4.	Radiation hygiene.		14	10	24
5.	Nutrition and human health.		36	10	46
6.	Hygiene water and water supply. Soil hygiene, cleaning of populated areas. Sanitary protection of water reservoirs.	2	24	10	36
7.	Occupational hygiene and prevention of workers' health.	4	16	10	30
8.	Features of the planning and functioning of preschool and school organizations. Hygiene of children and teenagers. Healthy lifestyle.	2	16	10	28
9.	Hygiene of medical organizations.	2	12	10	24

6. Laboratory practice

№ of the discipline section	Name of laboratory work	labor intensity (hour)
1.	Setting of hygienic standards and forecasting. Sanitation; organization, forms and stages of the state sanitary and anti-epidemic supervision. Climate and acclimatization. Microclimate. Measurement methods and specifications. <i>Laboratory work:</i> Sanitary-hygienic evaluation of the microclimate of the training room.	6 4
2.	Hygienic requirements for insolation and room lighting.	6

	<i>Laboratory work:</i> Definition and sanitary-hygienic evaluation of natural and artificial lighting of the room.	
3.	Atmospheric and indoor air pollution. Methods of analysis. Prevention of urban air pollution. <i>Laboratory work:</i> Definition and sanitary-hygienic evaluation of carbon dioxide in the room. Solving problems on the evaluation of dust and microbial air pollution. Hygiene of populated places and homes. <i>Laboratory work:</i> Sanitary-hygienic evaluation of a rural estate project.	4 6
4.	Radioactivity, natural radiation background and anthropogenic additives. <i>Laboratory work:</i> Radiometry and hygienic evaluation of water pollution, bread. Doses of ionizing radiation (exposure, absorbed, equivalent, effective). Biological effect and exposure standards for different categories of the population. Problem solving. Protection against external ionizing radiation (principles and calculation). Hazard classes when working with open sources. Zoning rules and equipment of premises, personal protective equipment. Problem solving.	6 4 4
5.	Nutrition Hygienic norms of nutrition of different groups of the population. <i>Laboratory work:</i> Sanitary-hygienic evaluation of food ration. Dietary and preventive nutrition. Principles of building diets and food rations. <i>Problem solving.</i> Sanitary-hygienic examination of animal products (meat, fish). Nutritional value, signs of deterioration, helminthiasis. <i>Tasks for assessing</i> the quality of samples of meat and fish. Sanitary-hygienic examination of milk. <i>Laboratory work:</i> Organoleptic and physico-chemical research, determination of the quality and types of falsification of milk. Nutritional value and signs of deterioration of products of plant origin (bread). <i>Laboratory work:</i> Sanitary-hygienic examination of bread. Quality control. Methods of canning. Tasks for assessing the quality of canned food. Food poisoning: classification, clinic, methods of prevention. <i>Problem solving.</i> Sanitary and hygienic requirements for catering. The principle of threading of raw materials and products. Personal hygiene and medical monitoring over staff. <i>Laboratory work:</i> Sanitary and hygienic evaluation of food processing units.	4 4 8 4 4 4 4 4 4
6.	1. Hygiene of water and water supply of populated areas. The importance of water for public health (infectious, parasitic, chemical). Sanitary and hygienic requirements for drinking water. Indicators of organic water pollution, generalized, microbiological indicators, MPC chemicals, radiation safety of drinking water. 2. Self-purification of water reservoirs. Zone of sanitary protection of water supply sources. Scheme of drinking water supply. 1. Organoleptic examination of water: - Snellen transparency, - color on a scale of color,	8

	<p>- smell in points.</p> <p>2. Chemical research of water:</p> <ul style="list-style-type: none"> - reaction (pH) by litmus, - total stiffness by the trilonometric method, - ammonium salts (sample), - nitrite (sample), - chlorides. <p>3. Hygienic evaluation of the quality of drinking water.</p> <p>Hygienic problems of cleaning, disinfecting and improving the quality of drinking water in a centralized water supply system. Methods, comparison of their effectiveness and scope (basic lesson).</p> <p>1. Determination of the coagulant dose for the purification of drinking water by the coagulation method:</p> <ul style="list-style-type: none"> - determination of bicarbonate hardness, - selection of coagulant dose. <p>2. Determination of the concentration of active chlorine in the finished bleach solution.</p> <p>3. Experimental chlorination of water with determination of residual chlorine.</p> <p>4. The calculation of the need for bleach for the disinfection of drinking water by the method of superchlorination (solving situational problems).</p>	8
	<p>1. Soil hygiene of populated areas. Epidemiological, sanitary and chemical significance of the soil. Biogeochemical provinces. Endemic diseases.</p> <p>2. Cleaning systems of populated areas. Methods of disinfection and disposal of solid household, liquid and industrial waste (basic occupation). Sanitary-hygienic assessment of soil quality by microbiological and chemical indicators (solving situational problems).</p>	8
7.	<p>1. Occupational hygiene. Occupational hazards. Occupational diseases. Harmful factors of the working environment and work organization.</p> <p>2. Basics of physiology. Phases of health. Fatigue, overwork, active rest.</p> <p>3. Physical environmental factors (cooling and heating microclimate, classification of work according to severity, forced body position) and their effect on health.</p> <p>Measurement of parameters (pulse, correction tests, tremorometry, measurement of the speed of response to the sound and light signal, measurement of muscle and body strength) and hygienic assessment of the state of students' performance after a training session and active recreation.</p>	4
	<p>1. Physical environmental factors (noise, vibration, ultra- and infrasound, laser and electromagnetic radiation). Hygienic rationing.</p> <p>2. Classification of dust, its effects on the body. Classification of pneumoconiosis. Prevention. Ventilation.</p>	8
	<p>1. Definition of occupational diseases according to working conditions and factors of the working environment (solution of situational problems).</p> <p>2. Hygienic assessment of noise impact on workers (solving situational problems).</p> <p>3. Calculation of the performance of the ventilation system in a production environment (solution of situational problems).</p>	4
	<p>1. Chemical environmental factors and their impact on the health of workers.</p> <p>2. Basics, principles of hygienic regulation in industrial toxicology.</p>	

	The establishment of MPC chemicals (the solution of situational problems).	
8.	Hygiene of children and teenagers. Evaluation of physical development (the concept of biological age, methods for assessing individual and group physical development). Health groups. 1. Evaluation of the child's physical development methods: - regression tables, - sigma deviations with the construction of a profile of physical development, - complex with the definition of biological age. 2. Determination of the child's health group (solving situational problems - only 4 tasks). 1. Hygiene of children's institutions. 2. Hygienic requirements for preschool and school educational institutions. 3. Hygienic requirements for lighting, teaching aids, furniture and the mode of operation of children's educational institutions. Hygienic evaluation of the kindergarten project (site master plan, floor plan, group cell).	8 8
9.	Hospital hygiene. Hygienic principles of organization of work and planning of hospitals. Hygienic evaluation of the hospital project.	12

7. Practical classes (seminars) (if available)

8. Description of material and technical base (material and technical equipment of the discipline)

Laboratory of Radiation Hygiene and Occupational Hygiene (Room 533, FHSS), Laboratory of Municipal Hygiene (Room 362, FHSS), Laboratory of Food Hygiene (Room 439, FHSS), each for 25 training seats (multimedia equipment, sets of handouts for solving situational tasks, materials for routine testing, laboratory equipment, reagents, devices).

9. Information provision of the discipline

Electronic databases

1. Electronic library system RUDN - EBS RUDN <http://lib.rudn.ru/MegaPro/Web>
2. EBS "University Library Online" <http://www.biblioclub.ru>
3. EBS Yurayt <http://www.biblio-online.ru>
4. EBS "Student Consultant" www.studentlibrary.ru
5. ELS "Lan" <http://e.lanbook.com/>

The list of information sources on the study sections of the course.

1. All-Russian Institute of Scientific and Technical Information - <http://vinity.ru/>.
2. All-Russian Scientific and Technical Information Center - <http://vntic.org.ru/>.
3. The State Public Scientific-Technical Library of Russia - <http://gpntb.ru/>.
4. The State Public Scientific-Technical Library of the Siberian Branch of the Russian Academy of Sciences - <http://gpsl.nsc.ru/>.
5. Russian Scientific and Technical Information Center for Standardization, Metrology and Conformity Assessment - <http://www.vniiki.ru/>.
6. The International Society for Environmental Epidemiology (ISEE) - <http://www.iseepi.org/>
7. The Bulletin of the Russian Academy of Sciences - <http://www.ras.ru/>
8. Institute of Scientific Information on Social Sciences - <http://www.inion.ru/>.

9. Institute of Medical Climatology - <http://imkvl.ru/news.html>.

10. Scientific electronic library eLIBRARY.RU - <http://www.scienceonline.ru/defaultx.asp>

10. Educational and methodical maintenance of discipline

The basic literature:

Electronic full-text materials

1. Гигиена [Электронный ресурс]: Учебник для вузов /Под ред. П.И. Мельниченко. - Электронные текстовые данные. - М.: ГЭОТАР-Медиа, 2014. - 656 с.: ил. - Системные требования: Windows XP и выше. - ISBN 978-5-9704-3083-5.

Hygiene [Electronic resource]: A textbook for universities / Ed. P.I. Melnichenko. - Electronic text data. - М.: GEOTAR-Media, 2014. - 656 p.: il - System requirements: Windows XP and above. - ISBN 978-5-9704-3083-5.

2. Гигиена детей и подростков [Текст/электронный ресурс]: Учебно-методическое пособие / Пивень Елена Анатольевна [идр.]. – Электронные текстовые данные. - М.:Изд-во РУДН, 2014. - 65 с.:ил. - ISBN 978-5-209-06178-6: 40.56.

Hygiene of children and teenagers [Text / electronic resource]: Teaching aid / Piven Elena Anatolyevna [and others]. - Electronic text data. - М.: Publishing house of the RUDN University, 2014. - 65 p.: il - ISBN 978-5-209-06178-6: 40.56.

3. Гигиена и экология человека [Электронный ресурс] :Учебник для вузов / В. И. Архангельский, В. Ф. Кириллов. – Электронные текстовые данные. - М.: ГЭОТАР-Медиа, 2014. - 176 с.:ил. – Системные требования: Windows XP и выше. - ISBN 978-5-9704-3099-6.

Hygiene and human ecology [Electronic resource]: Textbook for universities / V.I. Arkhangel'sky, V.F. Kirillov. - Electronic text data. - М.: GEOTAR-Media, 2014. - 176 p.: il - System requirements: Windows XP and above. - ISBN 978-5-9704-3099-6.

4. Коммунальная гигиена [Электронный ресурс] : Учебник для вузов / Под ред. В.Т. Мазаева. - Электронные текстовые данные. - М. : ГЭОТАР-Медиа, 2014. - 704 с. : ил. - Системные требования: Windows XP и выше. - ISBN 978-5-9704-3021-7.

Communal hygiene [Electronic resource]: A textbook for universities / Ed. V.T. Mazaeva. - Electronic text data. - М.: GEOTAR-Media, 2014. - 704 p.: il - System requirements: Windows XP and above. - ISBN 978-5-9704-3021-7.

5. Пивень Елена Анатольевна. Теоретические вопросы гигиены [Текст/электронный ресурс]: Учебно-методическое пособие для подготовки к государственному экзамену по общественному здоровью и здравоохранению, гигиене / Е. А. Пивень, Дрожжина Наталья Агафоновна. - Электронные текстовые данные. - М.: Изд-во РУДН, 2014. - 67 с. - ISBN 978-5-209-05939-4: 40.84.

Piven Elena Anatolyevna. Theoretical issues of hygiene [Text / electronic resource]: A teaching aid to prepare for the state exam in public health and health care, hygiene / E. A. Piven, Drozhzhina Natalia Agafonovna. - Electronic text data. - М.: Publishing house of the RUDN University, 2014. - 67 p. - ISBN 978-5-209-05939-4: 40.84.

6. Дрожжина Наталия Агафоновна. Гигиеническая оценка медицинской техники.

Физические факторы вредности для здоровья медицинского персонала [Текст/электронный ресурс]: Учебно-методическое пособие / Н. А. Дрожжина, Максименко Людмила Витальевна; Под ред. А. В. Фоминой. - Электронные текстовые данные. - М.: Изд-во РУДН, 2012. - 71 с. - ISBN 978-5-209-04498-7: 34.82.

Drozhzhina Natalia Agafonovna. Hygienic evaluation of medical equipment. Physical factors of harm to the health of medical personnel [Text / electronic resource]: Teaching aid / N. A. Drozhzhina, Maksimenko Lyudmila V.; Ed. A. V. Fomina. - Electronic text data. - М.: Publishing house of RUDN, 2012. - 71 p. - ISBN 978-5-209-04498-7: 34.82.

Published editions

1. Пивень Е.А., Максименко Л.В., Дрожжина Н.А. Практикум к лабораторным занятиям по общей гигиене: учебное пособие для студентов специальности «Лечебное дело»/ под ред. д-ра фарм. наук А.В. Фоминой. – М.: РУДН, 2013.- 256 с.:ил.
Piven, EA, Maksimenko, LV, Drozhzhina, N.A. A workshop for laboratory classes in general hygiene: a textbook for students of the specialty "General Medicine" / ed. Dr. farm Sciences AV St. - M.: PFUR, 2013.- 256 p.: Ill.
2. Дрожжина Н.А., Максименко Л.В., Пивень Е.А., Таджиева А.В. Учебно-методическое пособие к лекциям по гигиене. – М.: РУДН, 2013. – 54с.
Drozhzhina N.A., Maksimenko L.V., Piven E.A., Tadzhiyeva A.V. Teaching guide to hygiene lectures. - M.: RUDN, 2013. – 54 p.
3. Дрожжина Н.А., Максименко Л.В., Пивень Е.А., Таджиева А.В. Учебно-методическое пособие к лекциям по гигиене. Ч. 1. – М.: РУДН, 2012. – 62с.
Drozhzhina N.A., Maksimenko L.V., Piven E.A., Tadzhiyeva A.V. Teaching guide to hygiene lectures. Part 1. - M.: RUDN, 2012. – 62p.
4. Дрожжина Н.А., Гурова А.И., Максименко Л.В., Пивень Е.А. Руководство к лабораторным занятиям по гигиене питания: Учеб. пособие для студентов специальности «Лечебное дело». Книга 2 – М.: РУДН, 2009. – 173 с.
Drozhzhina N.A., Gurova A.I., Maksimenko L.V., Piven E.A. Guide to laboratory classes on food hygiene: Proc. manual for students of the specialty "General Medicine". Book 2 - M.: RUDN, 2009. - 173 p.
5. Максименко Л.В., Дрожжина Н.А., Пивень Е.А. Руководство к лабораторным занятиям по гигиене труда: учебное пособие для студентов специальности «Лечебное дело». – Кн.3/под ред. проф. Д.И.Кичи/. -М.: РУДН, 2011. – 193с.:ил.
Maksimenko L.V., Drozhzhina N.A., Piven E.A. Guide to laboratory work on occupational health: a manual for students of the specialty "General Medicine". - Kn.3 / ed. prof. D.I. Quiches. -M.: PFUR, 2011. – 193 p.: II.
6. Пивень Е.А., Дрожжина Н.А., Максименко Л.В., Бреусов А.В.; под ред. д-ра фарм. наук А.В. Фоминой. Руководство к лабораторным занятиям по гигиене детей и подростков и гигиене лечебно-профилактических организаций с основами общественного здоровья и здравоохранения. Кн.4. – М.: РУДН, 2012. -203 с.:ил.
Piven E.A., Drozhzhina N.A., Maksimenko L.V., Breusov A.V.; by ed. Dr. farm Sciences AV St. Guide to laboratory work on the hygiene of children and adolescents and the hygiene of treatment-and-prophylactic organizations with the basics of public health and public health. Book 4. - M.: PFUR, 2012. -203 p.: III.
7. Гигиена: Учебник, 2-е изд., перераб. и доп. / Под ред. акад. РАМН Г.И. Румянцева. – М.: ГЭОТАР-МЕД, 2001.-608 С.
Hygiene: Textbook, 2nd ed., Pererab. and add. / Ed. Acad. RAMS G.I. Rummyantsev. - M.: GEOTAR-MED, 2001.-608 P.
8. Гурова А.И., Дрожжина Н.А., Максименко Л.В., Пивень Е.А. Руководство к лабораторным занятиям по коммунальной гигиене: Учеб.пособие для студентов специальности «Лечебное дело». Кн. 1 / Под ред. проф. Д.И.Кичи. – М.: РУДН, 2007. – 114с.
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11. Methodical instructions for a student, a student with an indication of the competencies that students receive in the process of independent work.

Independent preparation of the student includes the study of the relevant chapter of the textbook, the textbook and / or the Workshop on hygiene in terms of training in theory and preparation for the performance of laboratory work (each laboratory work contains a detailed description and examples).

The student's independent work is verified in three forms:

- 1) introductory testing (assessment is recorded in the journal)
- 2) oral survey (assessment is recorded in the journal)
- 3) an interview in an interactive form with the participation of the teacher. (The recommendation is to prepare incomprehensible words, statements, methods for discussion with the teacher)

With effective student self-training, laboratory work does not require a significant investment of time. Registration of work on hygiene usually requires a sanitary-hygienic assessment of the state of environmental factors, for which results and hygienic requirements (standards) should be presented in the form of an assessment table and presented to the teacher for verification and reporting. Wrong or sloppy work will be assessed accordingly

12. Fund of assessment tools for the intermediate certification of students in the discipline "Hygiene"

Materials for assessing the level of mastering the educational material of the discipline "Hygiene" (assessment materials), including BRS, sample topics of essays, sample test questions and sample questions for retakes, are fully developed and available for students on the discipline page in TUIS RUDN.

The program is compiled in accordance with the requirements of the Federal State Educational Standard of Higher Education.

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