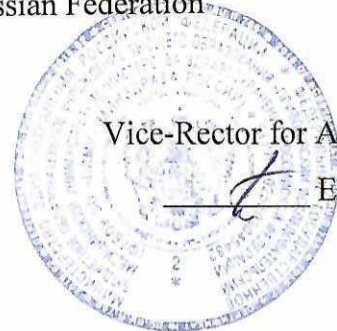


Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs


E.S. Bogomolova

31 August 2021

WORKING PROGRAM

Name of the academic discipline: **HYGIENE**

Specialty: **31.05.01 GENERAL MEDICINE**

Qualification: **GENERAL PRACTITIONER**

Department: **HYGIENE**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **252 academic hours**

Nizhny Novgorod
2021

The working program has been developed in accordance with the Federal State Educational Standard for specialty 31.05.01 GENERAL MEDICINE approved by Order of the Ministry of Science and Higher Education of the Russian Federation No. 988 of August 12, 2020.


Developers of the working program:

Ashina M.V., Ph.D. in Medical Sciences, associate professor of the Department of Hygiene
Kiseleva A.S., Ph.D. in Medical Sciences, associate professor of the Department of Hygiene

The program was reviewed and approved at the department meeting (protocol No. 01 June 2021)

Head of the Department,
Doctor of Medical Sciences

01 June 2021



(signature)

E. S. Bogomolova

AGREED

Deputy Head of EMA ph.d. of biology  Lovtsova L.V.

(signature)

01 June 2021

1. The purpose and objectives of mastering the academic discipline Hygiene (hereinafter – the discipline):

1.1. The purpose of mastering the discipline: formation of systemic knowledge on the methodology of preventive medicine, acquisition of hygienic knowledge and skills to assess the impact of environmental factors on human and population health, participation in forming the relevant competencies (UC-1, UC-6, UC-8, GPC-2, GPC-5, GPC -11, PC-15, PC-17, PC-18, PC – 19).

1.2. Tasks of the discipline:

1. formation of systemic knowledge on the methodology of preventive medicine
2. acquisition of hygienic knowledge and skills to assess the impact of environmental factors on human and population health

1.3. Requirements to the deliverables of mastering the discipline

As a result of completing the discipline, the student should

Know:

- fundamentals of legislation in the field of healthcare, legal aspects of medical activity, fundamentals of medical ethics and deontology
- fundamentals of preventive medicine, factors of harmful influence on vital activity, algorithms of action in case of emergency situations
- modern information and communication technologies, fundamentals of information security in professional activity
- the basic principles of the organization of preventive care for various groups of the population
- forms and methods of sanitary and educational work among various groups of the population

Be able to:

- solve problems related to the professional field using methods of intellectual activity
- identify dangerous and harmful factors in the framework of professional activity, develop preventive measures
- to carry out sanitary and educational work among children, adults and medical workers in order to form a healthy lifestyle and prevent the most common diseases
- to evaluate the main morphofunctional data, physiological conditions and pathological processes in the human body
- apply information and communication technologies in professional activities, taking into account the basic requirements of information security

Possess:

- methods of group and individual prevention of the most common diseases
- methods of assessment of basic morphofunctional data, physiological conditions and pathological processes in solving professional tasks
- ways of using modern information and communication technologies to solve standard tasks of professional activity, taking into account the basic requirements of information security

2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.

2.1. The discipline Hygiene refers to the core part of Block 1 of GEP HE (B1.O.23).

The discipline is taught in 4-5 semester / 2-3 year of study.

2.2. The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline:

1. physics, mathematics
2. medical informatics
3. chemistry
4. biology
5. biochemistry
6. physiology
7. microbiology

2.3. Mastering the discipline is required for forming the following knowledge, skills and abilities for subsequent academic disciplines:

1. public health and healthcare, health economics
2. epidemiology
3. occupational medicine
4. medical rehabilitation
5. disaster medicine
6. infectious diseases

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) or/and general professional (GPC) or/and professional (PC) competencies

№	Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	possess
1.	UC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	IUC 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; IUC 1.2 Able to: gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; IUC 1.3 Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity	methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis	gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience	researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems
2.	UC-6	Able to identify and implement the priorities of their own activities and ways to improve them based on self-	IUC 6.1 Knows: the importance of planning long-term goals of activity taking into account conditions, means, personal	the importance of planning long-term goals of activity taking into account conditions,	determine the priorities of professional activity and ways to improve it on the basis of self-assessment;	planning their own professional activities and self-development, studying additional

		assessment and lifelong learning	opportunities, stages of career growth, time perspective of development of activity and requirements of the labor market; IUC 6.2 Able to: determine the priorities of professional activity and ways to improve it on the basis of self-assessment; control and evaluate the components of professional activity; IUC 6.3 Has practical experience in: planning their own professional activities and self-development, studying additional educational programs	means, personal opportunities, stages of career growth, time perspective of development of activity and requirements of the labor market; technology and methodology of self-assessment; basic principles of self-education	control and evaluate the components of professional activity; plan independent activities in solving professional problems	educational programs
3.	UC-8	Able to: create and maintain safe living conditions in everyday and professional life for the preservation of the natural environment, ensuring sustainable development of society, including in the case of a threat and occurrence of emergency situations and military conflicts	IUC 8.1 Knows: factors of harmful influence on vital activity; algorithms of actions in case of emergencies and military conflicts IUC 8.2 Able to: identify dangerous and harmful factors within the framework of its activities, create and maintain safe living conditions in everyday and professional life IUC 8.3 Has practical experience in: participation in planned exercises to work out the rules of conduct in case of emergencies, first aid	factors of harmful influence on vital activity; algorithms of actions in case of emergencies and military conflicts	identify dangerous and harmful factors within the framework of its activities, create and maintain safe living conditions in everyday and professional life	participation in planned exercises to work out the rules of conduct in case of emergencies, first aid; complies with safety regulations at the workplace
4.	GPC-2	Able to conduct and realize control of efficiency of activities for prevention, formation of the healthy lifestyle and sanitary and hygienic education of the population	IGPC 2.1 Knows: the main criteria for the healthy lifestyle and methods of its formation; forms and methods of sanitary and hygienic education among patients, medical workers; basic hygienic recreational activities that contribute to the health promotion and prevention of the	social and sanitary medical aspects of alcoholism, drug addiction, substance abuse, basic principles of their prevention; fundamentals of preventive medicine; stages of	carry out sanitary and educational work among children and adults with the aim of forming the healthy lifestyle and prevention of the most common diseases; of children and adults (their legal representatives) conduct aimed at	formation of children and adults (their legal representatives) conduct aimed at preserving and improving the level of somatic health; formation of healthy lifestyle programs, including alcohol and tobacco consumption

			<p>most common diseases;</p> <p>IGPC 2.2 Able to: conduct sanitary and hygienic education among children and adults and healthcare workers in order to form a healthy lifestyle and prevention of the most common diseases; develop and implement programs of healthy lifestyle formation, including reduction programs of alcohol and tobacco consumption, prevention and fight against non-medical narcotic drug use and psychotropic substances</p> <p>IGPC 2.3 Has practical experience in: propaganda of healthy lifestyle and prevention of the most common diseases; carrying out sanitary and educational work among children and adults; development of a preventive action plan of events and implementation of group and individual prevention of the most common diseases</p>	<p>planning and implementation of communal programs for the prevention of the most common diseases</p>	<p>preserving and improving the level of somatic health; develop a plan of preventive measures and implement methods of group and individual prevention of the most common diseases; prescribe preventive measures to patients taking into account risk factors for prevention and early detection of diseases including cancer; carry out non-drug methods for the prevention of the most common diseases</p>	<p>reduction programs, prevention and fight against non-medical consumption of narcotic drugs and psychotropic substances; prescription of preventive measures for children and adults taking into account risk factors, oncological and hygienic prevention in accordance with the procedures for providing medical care, clinical recommendations taking into account the standards of medical care; selection of non-drug methods for the prevention of the most common diseases</p>
5.	GPC-5	<p>Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems</p>	<p>IGPC 5.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems</p> <p>IGPC 5.2 Able to: evaluate the basic morphological and functional data, physiological conditions and pathological processes in the human body</p> <p>IGPC 5.3 Has practical experience in: assessment of</p>	<p>anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems</p>	<p>evaluate the basic morphological and functional data, physiological conditions and pathological processes in the human body</p>	<p>assessment of basic morphological and functional data, physiological conditions and pathological processes in the human body when solving professional problems</p>

			basic morphological and functional data, physiological conditions and pathological processes in the human body when solving professional problems			
6.	GPC-11	Able to: prepare and apply scientific, research and production, design, management and regulatory documentation in the health care system	IGPC 11.1 Knows: scientific, research and production, design, management and regulatory documentation in the healthcare system IGPC 11.2 Able to: prepare scientific, research and production, design, management and regulatory documentation in the healthcare system	scientific, research and production, design, management and regulatory documentation in the healthcare system	prepare scientific, research and production, design, management and regulatory documentation in the healthcare system	
7.	PC-15	Able to: organize and conduct medical examinations taking into account age, health status, profession in accordance with applicable regulatory legal acts and other documents	IPC 15.1 Knows: regulatory legal acts and other documents regulating the procedures for conducting medical examinations, medical check-up and medical supervision; a list of specialist doctors involved in conducting medical examinations, medical check-up IPC 15.2 Can: conduct medical examinations taking into account age, health condition, profession in accordance with applicable regulatory legal acts and other documents	regulatory legal acts and other documents regulating the procedures for conducting medical examinations, medical check-up and medical supervision; a list of specialist doctors involved in conducting medical examinations, medical check-up	conduct medical examinations taking into account age, health condition, profession in accordance with applicable regulatory legal acts and other documents;	
8.	PC-17	Able to: conduct dispensary monitoring of patients with identified chronic non-communicable diseases and carry out medical examination of the adult population in order to early detect chronic non-	IPC 17.1 Knows: regulatory legal acts and other documents regulating the procedures for conducting medical examinations, medical survey and dispensary supervision; IPC 17.2 Able to: to carry out medical examination of the adult population for the purpose of early	principles of dispensary supervision of patients with non-communicable diseases and risk factors in accordance with regulatory legal acts and other documents; list of	to carry out dispensary observation of patients with identified chronic non-communicable diseases, including patients with high and very high cardiovascular risk	

		communicable diseases and the main risk factors for their development in accordance with current regulatory legal acts and other documents	detection of chronic non-communicable diseases, the main risk factors for their development;	specialist doctors involved in conducting medical examinations, medical survey		
9.	PC-18	Able to determine medical indications for the introduction of restrictive measures and indications for referral to a specialist doctor in the event of infectious diseases, issue and send an emergency notification to the territorial body of the Federal Service for Supervision of Consumer Rights Protection and Human Well-being when an infectious or occupational disease is detected, carry out anti-epidemic measures in the event of a focus of infection, including quarantine measures for the identification of highly dangerous infectious diseases	IPC 18.1 Knows: The legislation of the Russian Federation in the field of health protection, sanitary rules and regulations; rules for conducting sanitary and anti-epidemic measures IPC 18.2 Able to: determine medical indications for the introduction of restrictive measures (quarantine) and indications for referral to a specialist doctor; carry out sanitary and anti-epidemic measures in the event of a focus of infection	The legislation of the Russian Federation in the field of health protection, sanitary rules and regulations; rules for conducting sanitary and anti-epidemic measures	determine medical indications for the introduction of restrictive measures (quarantine) and indications for referral to a specialist doctor; carry out sanitary and anti-epidemic measures in the event of a focus of infection	
10.	PC-19	Able to: form healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat non-medical use of narcotic drugs and psychotropic substances	IPC 19.1 Knows: forms and methods of sanitary and educational work on the formation of elements of the healthy lifestyle IPC 19.2 Able to: develop and implement programs for the formation of the healthy lifestyle	forms and methods of sanitary and educational work on the formation of elements of the healthy lifestyle	develop and implement programs for the formation of the healthy lifestyle, including programs to reduce alcohol and tobacco consumption, prevention and control of non-medical use of narcotic drugs and psychotropic substances	

4. Sections of the academic discipline and competencies that are formed when mastering them

№	Competence code	Section name of the discipline	The content of the section in teaching units
1.	UC-1, UC-6, UC-8, GPC-2, GPC-5, PC – 19	Environmental health	<p>The subject and content of hygiene. The history of the formation and development of hygiene. The concept of primary and secondary prevention of diseases. Communication and interaction of preventive and curative medicine.</p> <p>Fundamentals of the legislation of the Russian Federation on health and environmental management. The Law "On sanitary and epidemiological welfare of the population".</p> <p>The environment as a combination of natural, anthropogenic and social factors. The concept of human ecology. Hygienic regulation and forecasting. The main elements of the methodology for assessing the risk to public health.</p> <p>Air hygiene. Solar radiation. Hygiene of water and water supply of populated areas. Legislation in the field of protection of reservoirs and water supply sources. Soil hygiene and sanitary cleaning of populated areas.</p> <p>Climate and human health. Hygienic problems of cities. Hygiene of residential and public buildings. Healthy lifestyle and personal hygiene issues.</p>
2.	UC-1, UC-6, UC-8, GPC-2, GPC-5, GPC -11, PC-15, PC-17, PC-18, PC – 19	Nutrition hygiene	<p>Biological and environmental problems of nutrition. The concept and principles of rational nutrition. The concept of nutritional status as an indicator of health. Prevention of diseases associated with insufficient or excessive nutrition. Food quality and safety. Food contaminants. Prevention of food poisoning and infections. Hygienic requirements for the layout, equipment, regime, operation of health care food units. Hygienic foundations of the organization of medical nutrition. Personal hygiene of the staff.</p>
3.	UC-1, UC-6, UC-8, GPC-2, GPC-5, GPC -11, PC-15, PC-17	Occupational medicine	<p>Legislation in the field of labor protection. Hygienic classification and criteria for assessing working conditions according to indicators of harmfulness and danger, factors of the production environment and the labor process. The influence of working conditions on human health. Occupational diseases. Principles of carrying out recreational activities in the workplace. Hygienic rationing of factors of the production environment. Occupational hygiene in agriculture.</p>
4.	UC-1, UC-6, UC-8, GPC-2, GPC-5, GPC -11, PC-15, PC-17, PC – 19	Children hygiene	<p>Patterns of growth and development of the child's body as the basis for rationing the environment of children and adolescents. The state of health of children and adolescents, the influence of environmental, social and intra-school factors on the state of health. School diseases, causes, prevention. Health groups. Physical development as an indicator of a child's health. Hygiene of school classes. Hygienic principles of the organization of the educational process. Hygienic requirements for the placement, layout and equipment of preschool and school institutions. Hygienic education.</p>
5.	UC-1, UC-6, UC-8, GPC-2, GPC-5, GPC -11, PC-18	Hospital hygiene	<p>The main tasks of hospital hygiene. The system of sanitary and hygienic measures to create a therapeutic and protective regime. Occupational hygiene of medical workers.</p>

5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity (AH) in semesters	
	volume in credit units (CU)	volume in academic hours (AH)	4	5
Classroom work, including	3,7	132	66	66
Lectures (L)	0,8	28	14	14
Laboratory practicum (LP)*	-	-	-	-
Practicals (P)	2,9	104	52	52
Seminars (S)	-	-	-	-
Student's individual work (SIW)	2,3	84	42	42
Mid-term assessment				
exam	1	36	-	36
TOTAL LABOR INTENSITY	7	252	108	144

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№	Name of the section of the academic discipline	Types of academic work* (in AH)					
		L	LP	P	S	SIW	total
1	Environmental health	6	-	37	-	20	63
2	Nutrition hygiene	8	-	25	-	14	47
3	Occupational medicine	6	-	20	-	14	40
4	Children hygiene	4	-	15	-	18	37
5	Hospital hygiene	4	-	7	-	18	29
	TOTAL	28		104		84	216

* - L – lectures; LP – laboratory practicum; P – practicals; S – seminars; SIW – student's individual work.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

№	Name of lecture topics	Volume in AH	
		4 semester	5 semester
1	Hygiene is the branch of preventive medicine	2	
2	Air quality as a determinant of environmental health. Climate, weather and health. Urbanization and health of the population.		2
3	Water is a factor of biosphere.	2	
4	Children's hygiene as the part of preventive medicine.	2	
5	Hygienic well-being of educational establishments	2	
6	Nutrition as a factor of health		2
7	Disturbances of nutritional status and alimentary diseases.		2
8	Nutrition and prevention of diseases		2
9	Ecological and hygienic safety of food		2
10	Hospital hygiene.		2
11	Hygienic requirements to conveniences of different hospitals.		2
12	Occupational health as the medical and social problem. Hazardous occupation and occupational diseases.	2	
13	Occupational hygiene of the medical staff..	2	
14	Ionizing radiation in medicine, radiation safety of human staff.	2	
	TOTAL (total – 28 AH)	14	14

6.2.2. The thematic plan of laboratory practicums isn't stipulated.

6.2.3. Thematic plan of practicals

№	Name of the topics of practicals	Volume in AH	
		4 semester	5 semester
1.	Hygienic assessment of natural and artificial illumination of premises. Biological importance of the ultraviolet radiation.	10	
2.	Hygienic assessment of drinking water quality (centralized water supply).	5	
3.	Hygienic assessment of drinking water quality (decentralized water supply). Methods of improvement of the drinking water quality.	5	
4.	Physical qualities of air. Complex assessment of the microclimate	5	
5.	Indoor air quality and human health. Hygienic assessment of the air-thermal regimen ensuring system.	7	
6.	Hygienic assessment of soil.	5	
7.	Hygienic estimation of real nutrition. Hygienic assessment of nutritional status		15
8.	Hygienic assessment of food value, quality and safety of food		5
9.	Prevention of food poisoning.		5
10.	Hygienic estimation of the occupational hazards.		5
11.	Ionizing radiation: human effects and radiation protection		10
12.	Prevention of occupational diseases.		5
13.	Estimation of children physical development	5	
14.	Complex evaluation of health state of children and teenagers	5	
15.	The hygienic requirements to schools.	5	
16.	Hygienic requirements to the hospital		7
	TOTAL (total – 104 AH)	52	52

6.2.4. Thematic plan of seminars isn't stipulated.

6.2.5. Types and topics of student's individual work (SIW)

№	Types and topics of SIW	Volume in AH	
		semester	semester
1.	Work with the electronic educational resources (creation of class in Planner5D)	10	
2.	Preparation of presentation (MS PowerPoint, prezi.com, canva.com)	8	8
3.	Solving situational problems	4	4
4.	Creation of online-lesson (videolesson) devoted healthy lifestyle (Miro, Trello; Zoom Cisco Webex, Skype)	12	
5.	Creation hospital project in accordance with healthcare standards		10
6.	Solving task-case on www.cyberpatient.ca (food poisoning and occupational problems)		12
7.	Work with regulatory documents	8	8
	TOTAL (total – 84 AH)	42	42

7. Types of assessment formats for ongoing monitoring and mid-term assessment

№	Semester No.	Types of control		Name of section of academic discipline	Competence codes	Assessment formats		
						types	number of test questions	number of test task options
1.	4,5	Current monitoring	Control of mastering the topic	Environmental health	UC-1, UC-6, UC-8	Tests	150	unlimited
			Monitoring the student's individual work		GPC-2, GPC-5, PC – 19	Situational tasks	20	-
2.	5	Current monitoring	Control of mastering the topic	Nutrition hygiene	UC-1, UC-6, UC-8, GPC-2, GPC-5	Tests	100	unlimited
			Monitoring the student's individual work		GPC -11, PC-15, PC-17, PC-18, PC – 19	Situational tasks	5	-
3.	5	Current monitoring	Control of mastering the topic	Occupational medicine	UC-1, UC-6, UC-8, GPC-2	Tests	120	unlimited
			Monitoring the student's individual work		GPC-5, GPC -11, PC-15, PC-17	Situational tasks	5	-
4.	4	Current monitoring	Control of mastering the topic	Children hygiene	UC-1, UC-6, UC-8, GPC-2	Tests	100	unlimited
			Monitoring the student's individual work		GPC-5, GPC -11, PC-15, PC-17, PC – 19	Situational tasks	11	-
5.	4,5	Current monitoring	Control of mastering the topic	Hospital hygiene	UC-1, UC-6, UC-8, GPC-2	Tests	80	unlimited
			Monitoring the student's individual work		GPC-5, GPC -11, PC-18	Situational tasks	5	-
6.	5	Mid-term assessment	Exam	All sections	UC-1, UC-6, UC-8, GPC-2, GPC-5, GPC -11, PC-15, PC-17, PC-18, PC – 19	Computer test	100	3
					Ticket interview, which includes 3 theoretical questions and a situational task	3	39	

8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources)

8.1. Key literature references

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1.	Shashina, E. A. Educational and methodological textbook for practical classes on hygiene : tutorial / E. A. Shashina, V. V. Makarova. - Moscow : GEOTAR-Media, 2021. - 208 p. : il. - ISBN 978-5-9704-5875-4.	5	200 https://www.studentlibrary.ru/ru/book/ISBN9785970458754.html?Sr=5701346363190d03bae35535ed347f1000062d9
2.	Environmental health: tutorial / L.I.Aronova, E.N. Gus'kova, S.V. Plotnova, T.G. Shirokogorova . - NNSMA. - N. Novgorod : Publishing house NNSMA, 2017. - 102 p. - ISBN 9785703211861.	10	97 http://nbk.pimunn.net/ProtectedView/Book/ViewBook/2935
3.	Hygiene in children and adolescents : tutorial / V. S. Kaveshnikov, T. V. Andropova, M. V. Gudina - Tomsk: Publishing house SSMU, 2019. - 94 p.	-	URL: https://www.books-up.ru/ru/read/hygiene-in-children-and-adolescents-9291552/
4.	Hygiene of Healthcare Organizations : tutorial / V. S. Kaveshnikov, V.N. Serebryakova, L.P. Volkotrub, T.V.Andropova. - Tomsk: Publishing house SSMU, 2018. - 126 p.	-	URL: https://www.books-up.ru/ru/read/hygiene-of-healthcare-organizations-7652782/

8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1.	Primary prophylaxis in children: a training manual / Bogomolova E.S., Ashina M.V., Badeeva T.V., Maksimenko E.O., Kiseleva A.S. – N.Novgorod: Publishing house of PRMU, 2021. – 88 p. – ISBN 978-5-7032-1390-2	-	http://nbk.pimunn.net/ProtectedView2022/App/Viewer
2.	Food Hygiene : tutorial / U.A.Pfarger, V. S. Kaveshnikov, V.N. Serebryakova [et al.]. - Tomsk: Publishing house SSMU, 2018. - 132 p.	-	URL: https://www.books-up.ru/ru/read/food-hygiene-7637970/
3.	Occupational and environmental health. Recognizing and preventing disease and injury / S. L. Baron, B. S. Levy, R. K. Sokas, D. H. Wegman. - 6th ed. - Oxford : Oxford University Press, 2011. - 854 p. : il. - ISBN 978-0-19-539788-8.	1	20

8.3. Electronic educational resources for teaching academic subjects

8.3.1. Internal Electronic Library System of the University (IELSU)

№	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
1.	Internal Electronic Library System of University http://nbk.pimunn.net/Meg	Works of the teaching staff of the University: textbooks, textbooks, collections of tasks, manuals, laboratory work,	From any computer and mobile device using an individual login and password.	Unlimited

aPro/Web	monographs, collections of scientific papers, scientific articles, dissertations, patents	Access mode: http://nbk.pimunn.net/MegaPro/Web
--------------------------	---	---

8.3.2. Electronic educational resources acquired by the University

№	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
1.	Electronic system "Book-up" https://www.books-up.ru	Educational and scientific medical literature of Russian publishers, including translations of foreign publications. Within the framework of the project "Big Medical Library", publications of the participating universities are available	From any computer and mobile device using an individual login and password; access is automatic from university computers. Publications from the "My Books" section are available for reading. Access mode: http://nbk.pimunn.net/MegaPro/Web	Unlimited Validity period: till 31.05.2022
2.	Integrated Information and Library system (IBS) of the scientific and educational medical cluster of the Volga Federal District - "Srednevolzhsky" (contract on a free basis)	Electronic copies of scientific and educational publications from the collections of libraries participating in the scientific and educational medical cluster of the Volga Federal District "Srednevolzhsky"	Access by individual login and password from any computer and mobile device. Access mode: websites of libraries participating in the project	Unlimited Validity period: unlimited
3.	Electronic legal reference system "Consultant Plus" (contract on a free basis)	Regulatory documents regulating the activities of medical and pharmaceutical institutions	From the computers of the scientific library. Access mode: http://www.consultant.ru/	Unlimited Validity period: unlimited
4.	National Electronic Library (NEL) (contract on a free basis) http://НЭБ.рф	Electronic copies of publications (including scientific and educational) on a wide range of knowledge	Scientific and educational works that have not been reprinted in the last 10 years are in the public domain. Works restricted by copyright – from the computers of the scientific library. Access mode: http://НЭБ.рф	Unlimited Validity period: unlimited

8.3.3 Open access resources

№	Name of the electronic resource	Brief description (content)	Access conditions
1.	Federal Electronic Medical Library (FEML) http://НЭБ.рф	Full-text electronic copies of printed publications and original electronic publications on medicine and biology	From any computer located on the Internet. Access mode: http://НЭБ.рф
2.	Scientific Electronic Library eLIBRARY.RU	Abstracts and full texts of scientific publications,	From any computer located on the Internet.

	https://elibrary.ru	electronic versions of Russian scientific journals	Access mode: https://elibrary.ru
3.	Open Access Scientific Electronic Library CyberLeninka http://cyberleninka.ru	Full texts of scientific articles with annotations published in scientific journals of Russia and neighboring countries	From any computer located on the Internet. Access mode: https://cyberleninka.ru
4.	Electronic collection of Springer publishing house https://rd.springer.com	Full-text scientific publications (journals, books, articles, scientific protocols, conference materials)	From university computers. Access mode: https://rd.springer.com
5.	Database of periodicals published by Wiley www.onlinelibrary.wiley.com	Periodicals published by Wiley	From university computers, from any computer with an individual login and password Access mode: www.onlinelibrary.wiley.com
6.	Electronic collection of periodicals "Freedom" on the Science Direct platform https://www.sciencedirect.com	Periodicals of the Elsevier publishing house	From university computers, from any computer with an individual login and password Access mode: https://www.sciencedirect.com
7.	Scopus Database www.scopus.com	International Abstract Database of Scientific Citation	From university computers, from any computer with an individual login and password Access mode: www.scopus.com
8.	Web of Science Core Collection Database https://www.webofscience.com	International Abstract Database of Scientific Citation	From university computers, from any computer with an individual login and password Access mode: https://www.webofscience.com
9.	Questel Orbit Database https://www.orbit.com	The company's patent database Questel	From university computers. Access mode: https://www.orbit.com
10.	PubMed https://www.ncbi.nlm.nih.gov/pubmed	US National Library of Medicine Database Search Engine «Medline», «PreMedline»	From any computer and mobile device. Access mode: https://www.ncbi.nlm.nih.gov/pubmed
11.	Directory of Open Access Journals http://www.doaj.org	Directory of open access to the full-text collection of periodicals	From any computer and mobile device. Access mode: http://www.doaj.org
12.	Directory of open access books (DOAB) http://www.doabooks.org	Directory of open access to the full-text collection of scientific books	From any computer and mobile device. Access mode: http://www.doabooks.org

9. Material and technical support for mastering an academic discipline

9.1. List of premises for classroom activities for the discipline

1. Lecture hall with multimedia equipment
2. Classroom for practical of food, air, soil and water hygiene, occupational, hospital, children hygiene.
3. Laboratory for assessment of water, soil, food.

9.2. List of equipment for classroom activities for the discipline

Instruments, devices: aquadistillator ADEA-4, gas analyzer MGL-19, dosimeter-radiometer DKS-96, dosimeter MKS-05 TERRA-P, air velocity and temperature meter Testo-415, temperature and humidity meter IVA-6A, thermometers maximum (mercury), minimum (alcohol), hygrometers hair, psychrometric VIT-2, August psychrometers, Assman aspiration psychrometers, universal gas analyzer UG-2, sets of indicator tubes, electric respirator (model 822), AERA aspirator, liquid rheometers, Zaitsev, Polezhaev,

Petri, Richter absorbers, filters AFA-VP, AFA-HP, AFA-HS, AFAS-Y, ashless paper, plastic cartridges, rubber tubes (hoses), sorption tubes, gas pipettes, noise meter and vibrometer, cup anemometers, winged, spherical, cylindrical catathermometers, aneroid barometer, thermograph, barograph, hygrograph, Argus-01 luxmeter, luxmeter – UV meter TKA-01, radon radiometer RRA-01M-03, Ecotest 2000 pH meter, KFK-2 photoelectrokalorimeter, EV-74 ionometer, EM-01 ion-selective membrane electrodes (EIM-1, EIM-P), Krotov device, bacteriological sampler, Petri dishes, bactericidal irradiators OBN, OBNP, OBPe, UV-V irradiator, VMEN scales-150-100- I-D-A, height meter REP-1, wrist dynamometers DW 25, DW 50, DW 100, dynamometer DC 500, spirometer Spirotest, caliper KETS-100, tonometers Omron M6, Doctor Tone tonometers, a set of metal sieves, tripods, measuring cylinders, measuring cylinders without a bottom, flasks, glasses, funnels, glass capillary tubes, pipettes, reagent kits, electric stoves, scales and sets of weights, tape measure, tape tape, rulers.

Computers, laptop, Canon MFPs, multimedia projector, plasma TVs.

9.3. A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN10030 LLC "Softline Trade" from 04.12.2020

Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation
(FSBEI HE "PRMU" of the Ministry of Health of Russia)

Department of Hygiene

CHANGE REGISTRATION SHEET

working program for the academic discipline
Hygiene

Field of study / specialty / scientific specialty: __31.05.01 GENERAL MEDICINE__

Training profile: _____
(name) - for master's degree programs

Mode of study: _____ Full-time _____

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting
Protocol No. _____ of _____ 20__

Head of the Department,
Doctor of Medical Sciences
_____ 20__

(signature)

E. S. Bogomolova