

The catalog of elective subjects in the 2022-2023 academic year

1. **Department:** "Social health insurance and public health»
2. **Level of training:** Bachelor
3. **Specialty:** "Public health»
4. **Course:** 1
5. **Term--2**
6. **Name of elective discipline:** Introduction to the specialty
7. **Number of credits – 4**
8. **Purpose:** to Lay the foundations of students ' understanding of the specialty subjects, in-depth study of which will be carried out in subsequent courses. To form students ' competencies necessary for the study of major disciplines.
8. **Tasks:**
 - To acquaint students with the basic concepts of subjects, in-depth study of which will be carried out in subsequent courses.
 - To acquaint students with the main issues of health care development; state policy and strategy in the field of health promotion.
 - To give students an idea of the chosen profession, public health, organization and activities of the health system as a whole.
 - To develop a personal attitude to professional activity.
- 9.**Rationale for the choice of discipline:** Discipline "Introduction to the specialty" will give students 1 year specialty "Public health" basic understanding of subjects, in-depth study of which will be carried out in subsequent courses. The content of the program is aimed at creating a holistic view of the chosen profession, public health, organization and activities of services and the health system as a whole. The program of discipline to acquaint students with the main issues of health care development; problems of impact on health of adverse environmental factors of natural and anthropogenic character; state policy and strategy in the field of public health promotion. Discipline "Introduction to the specialty" to lay students ' understanding of the state policy in the field of health, aimed at strengthening the preventive component. It will help students to form the competencies necessary for the study of major disciplines.
- 10.**Learning outcomes (competencies):** Knowledge and understanding (to demonstrate knowledge and understanding in the study area, including elements of the most advanced knowledge in this area): Knows the current state of health of the population of Kazakhstan. Understand the modern concept of public health. Knows medical and social significance of priority classes of diseases. Knows the priorities of public health.
- Application of knowledge and understanding** (apply this knowledge and understanding at a professional level): Applies knowledge and methods of searching data on the Internet. Applies educational, scientific and reference literature to solve problems.
- Formation of judgments** (to formulate arguments and solve problems in the study area): Formulates the principles of the effectiveness of preventive measures and health programs.

Learning skills or learning abilities (to collect and interpret information to form judgments based on social, ethical and scientific considerations): Able to collect information about the health of the population. He is able to develop proposals to eliminate the impact of adverse factors and improve public health. Has the skills of handling modern technology. He is able to use information technologies in the field of professional activity.

Communication skills (to communicate information, ideas, problems and solutions to both professionals and non-professionals): Able to transfer students, teachers, examiners knowledge of the studied discipline.

11. Prerequisites: School subjects.

12. Post-requisites: Public health, biostatistics.

13. Literature:

Basic literature:

1. Medik V. A. Public health and healthcare [Electronic resource] : textbook / V. A. Medik, V. K. Yuryev. - Electron. text Dan. (47.6 MB). - Moscow : GEOTAR - Media, 2013. - 608 p. al. wholesale. disk (CD-ROM)
2. Lecture complex on discipline: "Global health" : lectures / caf. public health-1. - Shymkent : YUKGFA, 2016. 17 PP.
3. Lisitsyn, Yu. p. Public health and health care : textbook / Yu. p. Lisitsyn, GE ulumbekova. - 3rd ed.].; Ministry of education and science of the Russian Federation. Rivers'. GOU VPO "the First state med. UN-t im. I. M. Sechenov". - Moscow : GEOTAR - Media, 2015. - 544 p.
4. Medik V. A. Public health and health care: textbook / V. A. Medik, V. K. Yuryev. - 2nd ed., Rev. and EXT.; of the Rivers. GOU VPO "Mosk. honey. Acad. they. I. M. Sechenov". - Moscow : GEOTAR - Media, 2014. - 608 p.: Il.
5. Lisitsyn, Yu. p. Public health and health care : textbook / Yu. p. Lisitsyn, GE ulumbekova, M of education and science. - 3rd ed., pererab. I DOP ; REK. GOU VPO "Mosk First. state honey. UN-t im. I. M. Sechenov". - Moscow : GEOTAR - Media, 2013. - 544 silt.
6. Application of statistical analysis methods to the study of public health and health: studies. the allowance / under the editorship of V. Z. Kucherenko. - 4th ed., Rev. and add.; of the Rivers. Studies'.-method. 'ed. on honey. and pharmaceutical education of Russian higher educational institutions. - Moscow : GEOTAR - Media, 2011. - 256 p.
7. Dauletbaev, D. A. Lemmetty medicine and Densauylyk staudy Basara : excellent Ali / D. A. Dauletbaev, Lazareva A. S., B. A. LSAT. - Almaty : Evero, 2011.
8. Bledow, M. Schwa. Kogamdyk Densauylyk and desaulty satou : owly / M. Schwa. Blelow. - Almaty : Evero, 2015. - 244 Beth.
9. Densauylyk satou jieshe alghashky dreric - sanitary Komek priority rende : DRS Kesan / OMPA. "Kogamdyk Densauylyk saktau - 1". - Shymkent : [b. I.], 2015. - 36 b. S. AFR.
10. Bielawa, R. Leumit medicine and Densauylyk staudy Basara: owly / R. Bielawa. - Almaty : Evero, 2014. - 560 bet. S. AFR.

11. Bledow, M. Schwa. Kogamdyk Densauyk and desaulty satou : owly / M. Schwa. Blelow ; R BM. - Almaty : R Geary excellent orindary audactiy, 2012. - 256 bet. S. AFR.

Additional literature:

1. Akanov, A. public Health and health of the Republic of Kazakhstan = Population Health and Care of the Republic of Kazakhstan (White Paper) : monograph / A. Akanov, T. meymanaliev. - ; Rivers'. to ed. Scientist. Council KazNMU them. S. D. Asfendiyarova. - Almaty : Evero, 2014. - 80 p.
2. Akanov, A. public Health and health of the Republic of Kazakhstan = The White Paper-2 : monograph / A. Akanov, T. meymanaliev, K. Tulebaev. - ; Rivers'. to ed. Scientist. Council KazNMU them. S. D. Asfendiyarova. - Almaty : Evero, 2014. - 85 p.
3. Tel, L. Z. health Code . Eurasian system. Health preservation: monograph / L. Z. tel. - 6th ed. - Almaty : Evero, 2012. 152 p.
4. Tel, L. Z. encyclopedia of health. Health and longevity. Theory and practice: encyclopedia / L. Z. tel. - Almaty : Evero, 2011. - 736 p.
5. Tel, L. Z. the Science of health and recovery - valeology - philosophy of life : scientific. ed. / L. Z. Tel. - Almaty : Evero, 2011. - 680 p.
6. The health of the population of the region and the health priorities : the textbook / under the editorship of O. P. Shchepin. - Moscow : GEOTAR - Media, 2010. - 384 p.
7. Kuratko, D. F. Kasperl :theory,process,practice = Entrepreneurship : monograph / D. F. Kuratko ; RM.M. Kystaubaeva [Zhane T. B.]. - 10-the bass. - Astana : Ultyk audarma burasy, 2018. - 480 b. S. : (Rouhani gear).
8. Respublikasynyn Kazakhstan Halyk densely and Densauyk satou gies Turala Codex [MTN] = code of the Republic of Kazakhstan on the health of people and the health care system : laws and legislation / R Densauyk satou ministrels. - Astana : B. Zh., 2009. - 320 bet. S. AFR.

Electronic resources

1. Lisitsyn, Yu. p. Public health and health care [Electronic resource] : textbook / Yu. p. Lisitsyn, GE ulumbekova. - 3rd ed., pererab. I DOP. - Electron. text Dan. (43.1 MB). - Moscow : GEOTAR - Media, 2017. - el. wholesale. disc (CD-ROM).
2. Densauyk satou jieshe alghashky dreric - sanitary Komek priority rende [Electronic resource] : DRS Kesan / OMPA. "Kogamdyk Densauyk satau - 1" kafedrasi. - Electron. text Dan. (459 KB). - Shymkent : [b. I.], 2015. - o+al. wholesale. disk

1. **Department:** "Hygiene and epidemiology"

2. Level of preparation (bachelor / internship / magistracy / residency)

3. Specialty: "Public Health"

4. Course: 2

5. Name of elective discipline: "Radiation hygiene and medical ecology"

6. Number of credits - 5

7. Objective: To study the adverse effects of environmental factors on public health in certain territories: - To explore ways to eliminate or reduce adverse effects on human health.
8. Objectives: to give knowledge about the indicators of the body systems as an environmental assessment criteria;
- teach the assessment of the role of the main indicator in the complex effects of various environmental factors environments (radionuclides, mineral fertilizers, EMF, etc.);
 - the study of the environmental aspects of negative and positive environmental factors on health person;
 - assessment of the capacity of medical, ecological landscapes;
 - formation of medical, environmental awareness among the population.
9. Justification of the choice of discipline: radiation hygiene and medical ecology is one of the scientific branches of preventive medicine, knowledge of which is necessary for bachelors in the specialty “Public Health”.
10. Learning Outcomes (Competences)

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
<ul style="list-style-type: none"> - know the legal documents of radiation hygiene and the value of practical medical ecology - basic legislation in the field of radiation hygiene and environmental protection; history of the origin and development of the science "Radiation Hygiene"; the organization and structure of the Department of Radiation Hygiene of DSSSES and the radiological laboratory of the Center of Electrical and Ecology; - knows the health features of the urban and rural population; 	<ul style="list-style-type: none"> - carry out decontamination of environmental objects and surfaces from various materials; - assess the effectiveness of the processing, disposal and disposal of radioactive waste; - owns the skills of public speaking with the presentation of analysis and synthesis of information in the studied area 	<ul style="list-style-type: none"> - able to transfer to students, teachers, examiners own - knowledge and skills in planning and conducting research; - explain the observed facts and phenomena, their causal relationship

<ul style="list-style-type: none"> - knows the effect of polluted air on health and living conditions of the population; - knows the effect of the consequences of environmental pollution of the lithosphere on human health. 		
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11. Prerequisites: physiology, sociology.

12. Post requisites: child and adolescent hygiene, occupational health, public health.

13. Literature

1. Ivanov V.P. General and Medical Ecology: a textbook. — Rostov n / D: Phoenix, 2010
2. Medical ecology: a manual for students of medical universities / ed. A.A. Korolev.- M .: EC "Academy", 2003.-192 p.
3. Kenesaries Y.I. Ecology zheңne törғындar densaulығу: Оқу құралы - Almaty, Evero, 2009
4. Kenesaries Y.I. Almaty, Glym, 2003
5. Vasilenko O.I. Radiation ecology: a manual for students of medical universities, -M: Medicine, 2004
6. Kenesaries eb.I. Ecology and public health; Training For medical universities and colleges, Almaty: SIC Glym, 2002

additional:

- Lakshin A.M. general hygiene with basic human ecology; textbook-M., Medicine, 2004
2. Pivovarov Yu.P. Hygiene and fundamentals of human ecology: a textbook. –M: Academy Publishing Center, 2004
3. Pivovarov Yu.P. Hygiene and fundamentals of human ecology: a textbook. For medical universities. Rostov n / D: Fenix, 2002 Krymskaya I.G.
4. Hygiene and fundamentals of human ecology: study guide. - Rostov n / D: Phoenix, 2007
5. Vasilenko O.I. Radiation ecology: a manual for students of medical universities, -M: Medicine, 2004
6. Kataeva V.A. Guide to laboratory, practical and self-study in general hygiene and basic human ecology: a manual for students. -M .: Medicine, 2005
7. Trushkina L.Yu. Human Hygiene and Ecology: textbook. -4th ed .-M. Prospectus, 2006

1. Department: “Social health insurance and public health”.

2. Level of training: Bachelor.

3. Specialty: “Public health”

4. Course: 2 course

5. Term: 4

6. Name of elective discipline: Basics of evidence-based medicine.

7. Number of credits – 5/150

8. Purpose: formation of students' knowledge of the basics of evidence-based medicine, the formation of skills that will critically evaluate medical information for rational use in further practice.

9. Tasks:

- to give students knowledge about the basic terms of evidence-based medicine (DM);

- teach students to distinguish between types of clinical trials;

- to teach the basic skills of searching the database of evidence-based medicine;

- to teach critically evaluate medical information with the help of evidence-based medicine filters.

10. Rationale for the choice of discipline: evidence-Based medicine is the use of the results of the best clinical studies to choose the treatment of a particular patient, it is the integration of the best scientific evidence with the clinical experience and expectations of patients. The principles of evidence-based medicine are used primarily in clinical practice, but they are applicable to any field of medical science, including preventive medicine, public health, health organization.

11. Learning outcomes (competencies): Knowledge and understanding (demonstrate knowledge and understanding in the field of study, including elements of the most advanced knowledge in this area): knows the basic terms of evidence-based medicine; knows the types of research used in clinical epidemiology; knows the concept of clinical guidelines, including the standard, Protocol of diagnosis and treatment, prevention.

Application of knowledge and understanding (apply this knowledge and understanding at a professional level): uses the principles of search and evaluation of evidence obtained from different sources; applies different types of decision-making in preventive medicine; applies the principles of work in the search engine with the use of evidence-based medicine filters.

Formation of judgments (formulate arguments and solve problems in the study area): formulates the problem (question) using the PICO principle; formulates arguments for the analysis and critical evaluation of medical articles on preventive medicine; formulates arguments about the clinical guidelines, the stages of its preparation.

Communication skills (to communicate information, ideas, problems and solutions to both professionals and non-professionals): able to present a project of scientific work and present the results to the public; offers his ideas in the decision-making of medical issues on preventive medicine; able to make a rough plan of medical audit of their practice.

Learning skills or ability to study (to collect and interpret information to form judgments based on social, ethical and scientific considerations): able to present personal judgments, to issue in the form of an abstract, presentation, project and present at practical classes, meetings of the student club, student scientific conferences, etc.; collects material and interpretation using the database of evidence-based medicine, analyzes and critically evaluates medical articles, has personal judgments in practical classes when discussing the main issues of the topic.

12. Prerequisites: School subjects

13. Post-requisites: Public health, biostatistics.

14. Literature:

Basic literature:

1. General epidemiology with the basics of evidence-based medicine. Guide to practical training : studies. the allowance / under the editorship of V. I. Pokrovsky, N. I. Briko. - Moscow : GEOTAR - Media, 2010.

2. Greenhalgh, T. evidence-based medicine : textbook: translated from English. - 3rd ed. - Moscow : GEOTAR-Media, 2009.

3. Greenhalgh, T. evidence-based medicine : proc. benefit. - 3rd ed. - Moscow : GEOTAR - Media, 2008.

4. Klyushin D. A. Evidence-based medicine. Application of statistical methods.- M., 2008

5. Greenhalgh, T. Dled medicine negadon : owly: audarma Aylin tLAN / awpta the editorship of G. S. Kemelova ; Kazak tne RM. Because Saadetava. - Moscow : GEOTAR - Media, 2014. - 336 bet-

Additional literature:

1. Evidence-based medicine in questions and answers: studies.-methodical manual. - Karagandy : LCD "AK Nur", 2013.

2. Dled medicinebuy crater men HAPTER: excellent-distell al. - Karagandy : LCD "ANR", 2014. - 104 Beth.

3. Derbisalin G. Schwa. Dled medicine negadon : distell NSAU . - 2 bass., tolet. - Karagandy : LCD "AK Nur", 2013

Electronic resource:

1. Management plans. Version 1.1 [Electronic resource] : electronic ed. / under the editorship of O. Y. Atkov. - Electron. text Dan. (86.1 MB). - Moscow : GEOTAR - Media, 2009. - el. wholesale. disc (CD-ROM). - (Demonstrative medicine.)

2. Consultant doctor. Clinical guidelines. Version 2.1. Clinical guidelines based on evidence-based medicine. [Electronic resource] : practical work. - Electron. text Dan. (76.8 MB). - Moscow : GEOTAR - Media, 2008. - el. wholesale. disc (CD-ROM).

3. Greenhalgh, T. Dled medicine Neger [Electronic resource] : owly / Kazak til. AUD. T. K. Sagatova. - Electron. text Dan. (40.4 MB). - Moscow : GEOTAR - Media, 2017. - el. wholesale. disc (CD-ROM).

1. Department: "Hygiene and epidemiology"

2. Level of preparation (bachelor / internship / magistracy / residency)

3.Speciality: Public Health

4. Course: 3

5. The name of the elective discipline: "Occupational hygiene"

6. The number of credits - 5

7. Objective: to train a public health specialist in conducting state sanitary and epidemiological surveillance in the field of occupational health.

8. Tasks:

- to give knowledge about the main provisions of the legislative acts regulating the activities of a sanitary doctor, including articles of the Constitution of the Republic of Kazakhstan, the Labor Code of the Republic of Kazakhstan, the Code of Health of the People and the Health System, resolutions of the Government of the Republic of Kazakhstan and other legal and regulatory acts;
- teach assessing the state of public health and health care;
- teach theoretical and practical basics of occupational health;
- to give knowledge about the methods of hygienic, physiological, toxicological and chemical studies of the working environment and factors of the labor process;
- teach how to develop preventive measures and assess their effectiveness;
- train organizations to provide sanitary and epidemiological well-being of the population engaged in various types of work;
- to give knowledge about the measures of state sanitary inspection carried out with the purpose of determining risk factors in the prevention of occupational diseases, poisoning and injuries, as well as helping to reduce the overall disease incidence of the working population;
- to teach the assessment and analysis of the state of the production environment and factors of the labor process of the controlled objects with the aim of developing a complex
- prophylactic measures;
- to teach methods of laboratory and instrumental research of factors of the production environment and the labor process;
- to train the implementation of current sanitary supervision of subordinate enterprises and other objects;
- to teach the correct design of accounting and reporting documentation;
- to train in propagation of the principles and bases of a healthy lifestyle, principles of prevention of industrial injuries and occupational diseases.
- teach professional risk assessment in industrial enterprises.

1. Justification of the choice of discipline: Labor hygiene is one of the scientific branches of preventive medicine, knowledge of which is necessary for bachelors in the specialty "Public Health".

2. Learning Outcomes (Competences)

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
<p>-Knows precautionary and current health supervision in the field of occupational health;</p> <p>- Knows about the production of physical factors in occupational health and their assessment. (One microclimate, noise, vibration, infrasound, ultrasound, aerosols, industrial poisons, low and high pressure);</p> <p>- knows about their hygienic regulation and preventive measures;</p> <p>- knows about industrial ventilation, lighting, heating and their values in creating favorable working conditions;</p> <p>-Knows the basics of physiology and psychophysiology of labor, hygiene-physiological methods of studying the influence of the labor process on the state of individual systems (CNS, blood system, cardiovascular, muscular, respiratory) in the process of labor;</p> <p>-Knows occupational health in the metallurgical industry, the coal industry, the engineering</p>	<p>- able to conduct business, accounting and reporting, medical documentation on labor hygiene in the state and Russian languages;</p> <p>- is able to assess the sanitary and hygienic state of various objects in the event of a complicated sanitary and epidemiological situation;</p> <p>- is able to give a hygienic assessment of working conditions and at the enterprise as a whole;</p> <p>- able to understand the principle of work and methods of studying the functional state of the body in the process of work;</p> <p>- able to carry out preventive and current sanitary and hygienic supervision in the field of occupational health;</p> <p>- is able to conduct accounting, investigation and analysis of professional poisonings, diseases and injuries at work;</p> <p>- able to work with devices, evaluate the hygienic efficiency of sanitary equipment, taking into account international standards;</p>	<p>- Formulates and argues the impact of harmful and dangerous factors of the production environment on the body of workers and the effectiveness of preventive measures to reduce the influence of harmful and dangerous factors;</p> <p>- formulate its own conclusions in the form of recommendations, proposals, regulations on the implementation of sanitary and hygienic and anti-epidemic measures.</p>

<p>industry, the chemical industry, in the production of building materials, in agriculture, health workers, women and adolescents;</p> <p>- Knows about the certification of production of working conditions. He is aware of a comprehensive assessment of the health status of workers;</p> <p>- knows about professional poisoning, industrial injuries, accounting, registration and investigation of professional poisonings;</p> <p>- knows the basics of hygienic regulation of harmful substances, physical, chemical and biological factors of the production environment;</p> <p>-knows the physiological basis of the organization of workplaces, working conditions (severity and intensity of labor)</p>	<p>- able to use knowledge of the patterns of interaction of the organism and the working environment in carrying out the promotion of healthy lifestyles among the population, to carry out propaganda for the prevention of industrial injuries and occupational diseases</p>	
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11. Prerequisites: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Post requisites: public health, state sanitary and epidemiological surveillance

13. Literature

Primary:

1. Izmerov N.F., Kirillov V.F. Occupational health. Textbook. Moscow, 2008.- 592c.
2. Hygiene. U.I. Kenesariiev, K.K. Toguzbaeva et al., Textbook Almaty. 2009.- 668c.

3. Manual on sanitary examination in the field of occupational health. Edited by MD, prof. Sraubaeva E.N., Belonog A.A. - Karaganda, 2008.-562 p.

Additional:

1. Sanitary norms and rules for occupational health of the industry. 3t.-Omsk. 1995.-1050s.
2. Occupational medicine. Textbook / ed. Izmerova NF / 2008- 520s.
3. The method of studying the production microclimate and its impact on the organization of workers. Ed. Ph.D. Zhakenova S.R. Educational and methodological assistance. 9965-406-50-2. Karaganda, 2005.-56s.
4. Galayeva A.I. Production aerosols, their hygienic assessment and rationing. Research methods and prevention of dust occupational pathology. Study guide. - Karaganda, 2008 - 80s.
5. Preventive and routine sanitary inspection of ventilation.
6. Ed. Sraubaev E.N., Zhakenova SR., Shintaeva N.U. - Karaganda, 2010- 66s.
7. Occupational health in leading industries of Kazakhstan. Teaching manual. Toguzbaeva K.K. Almaty 2010 - 73s.
8. Occupational health when working with video terminals. Teaching manual. Toguzbaeva K.K. Almaty 2010 - 68s.
9. Preventive sanitary inspection for new construction and reconstruction of industrial enterprises. Teaching manual. Toguzbaeva K.K. Almaty 2010 - 72s.
10. Shayzadina G.N. - Preventive sanitary inspection. Teaching manual. Astana, 2010 - 50s.

1. Department: "Hygiene and epidemiology"

2. Level of preparation (bachelor / internship / magistracy / residency)

3. Specialty: "Public Health"

4. Course: 3

5. Name of elective discipline: "Hygiene of children and adolescents"

6. Number of credits - 5

7. Objective: to give an idea of the hygiene of children and adolescents as a science, its basic foundations, principles, methodological approaches, to lay down the knowledge and skills necessary for mastering the legislative framework, theoretical and applied aspects of preventive and current supervision in the field of hygiene of children and adolescents .

8. Tasks:

- familiarize with the theoretical and methodological foundations of the hygiene of children and adolescents and the principles of hygienic regulation of environmental factors and activities of children;

- to give an idea of the nature and nature of the impact on the growing organism of various factors of the educational and industrial environment;
 - to teach methods of studying and assessing the health and physical development of children and adolescents;
 - to teach to develop a complex of recreational activities and sanitary and hygienic recommendations that provide favorable conditions for the upbringing and education of children and adolescents;
 - train to carry out state sanitary supervision over the improvement of the living conditions of children and adolescents.
9. Substantiation of the choice of discipline: The hygiene of children and adolescents as a scientific discipline and practical branch of health care is designed to substantiate and develop preventive measures aimed at preserving and strengthening the health of the younger generation. It studies the influence of various environmental and social factors, analyzes, evaluates and predicts their impact on a growing organism.

10. Learning Outcomes (Competences)

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
<ul style="list-style-type: none"> - knows the subject, goals, main tasks and research methods used in the hygiene of children and adolescents; - knows the relationship of hygiene of children and adolescents with other sciences; - knows the history of occurrence and the main stages of the development of hygiene of children and adolescents, - knows the patterns of growth and development of the child's body; 	<ul style="list-style-type: none"> - knows how to conduct a hygienic assessment of the premises of children's and adolescent institutions; - able to assess the placement of children and adolescents in children's preschool and school institutions, using data on the parameters of the microclimate, lighting, on-values of the premises; - able to determine the daily energy consumption by the time-keeping method and the physiological needs of children in the main nutrients and energy; - is able to compile and calculate menu layouts according to the "Standards of need for basic nutrients and energy"; 	<ul style="list-style-type: none"> - identifies problems of the influence of the educational and production environment on the children's body and formulates ways to solve them; - is able to plan and argue an assessment of the state of physical development of children and adolescents;

<ul style="list-style-type: none"> - knows the principles and features of hygienic regulation of environmental factors and children's activities; - Knows the methodological approaches to the study and assessment of factors of the educational and industrial environment and their impact on the body of children and adolescents. - knows the methodology for sanitary hygiene 	<ul style="list-style-type: none"> - able to carry out fortification in the organization of rational nutrition and prevention of nutritional diseases; - able to calculate the dose of ultraviolet radiation and carry out preventive UV irradiation of children using lamps of various types; 	<ul style="list-style-type: none"> - able to plan and organize events to improve the health of children and adolescents
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11. Prerequisites: *epidemiology, infectious diseases, radiation hygiene and medical ecology*

12. Post requisites: public health, state sanitary and epidemiological surveillance

13 Literature

main:

1. Kuchma, V.R. Hygiene of children and adolescents textbook / Ministry of Education and Science of the Russian Federation. - 2nd ed., Corr. and add. M.: GEOTAR - Media, 2013. - 528 p.
2. Hygiene of children and adolescents: a guide to practical exercises, a textbook. Ed. V.R. Kuchma. - M.: GEOTAR-MEDIA, 2012.-546 p.

additional:

1. Hygiene textbook / M-in education and science of the Russian Federation; by ed. P. I. Melnichenko. -; Rec. The state budgetary educational institution of higher professional education "First Mosk. State Medical University named after IM Sechenov". - M.: GEOTAR - Media, 2014. - 656 p.
2. Kuchma, V. R. Hygiene of children and adolescents [Electronic resource]: studies. for universities. - Electron. text given. (40.9 MB). - M.: Ed. group "GEOTAR-Media", 2010. - 480 with el. opt.disk (CD-ROM).
3. The State Program for the Development of Healthcare of the Republic of Kazakhstan "Densaulyk" for 2016–2020.

1. **Department:** "Hygiene and epidemiology"

2. **Level of preparation** (bachelor / internship / magistracy / residency)

3. **Specialty:** "Public Health"

4. **Course:** 3

5. **Name of elective discipline:** "Communal hygiene"

6. **Number of credits** - 5

7. **Objective:** to train a public health specialist to conduct state sanitary and epidemiological surveillance in the field of communal hygiene.

8. **Tasks:** to teach to conduct preventive and routine sanitary inspection of public hygiene objects;

- teach how to apply sanitary and hygienic methods in the organization of sanitary supervision of the main sources of air pollution, soil on the territory of populated areas and water reservoirs;

- to give knowledge of the sanitary-hygienic assessment of water supply sources, ways to improve the quality of drinking water and water supply systems, the assessment of systems and types of sewage in populated areas;

- teach to carry out sanitary supervision of lighting, heating and ventilation of residential and public buildings, various municipal facilities, health care facilities, pharmacies and sports facilities;

- to teach to carry out the development and implementation of sanitary and hygienic measures for the sanitary protection of water bodies, atmospheric air and soil of populated areas and indoor air.

9. **Justification of the choice of discipline:** Communal hygiene is one of the leading preventive disciplines, studying the impact of natural and anthropogenic environmental factors on human health in populated areas, with the aim of justifying measures to improve the human environment, to prevent and reduce morbidity of the population, to develop hygienic standards and sanitary legislation in the field of communal hygiene. Communal hygiene is one of the scientific branches of preventive medicine, knowledge issues which need to bachelors in the specialty "Public Health".

10. Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
<ul style="list-style-type: none">• knows the causes, conditions and risk factors for the occurrence and spread of infectious and non-communicable diseases among the population by water and their prevention;• knows the rules for organizing and	<ul style="list-style-type: none">• makes management decisions at different levels of state sanitary and epidemiological surveillance;	<ul style="list-style-type: none">- takes new ideas;- demonstrates relevant communication skills;- complies with the principles of medical ethics when

<p>conducting sanitary inspection of the main sources of pollution of atmospheric air, soil and water of reservoirs;</p> <ul style="list-style-type: none"> • knows methods for assessing the illumination, ventilation and heating of residential and public buildings, communal facilities, sports facilities, medical institutions; • knows the stages of the examination of projects of water supply, sewage of populated areas, planning and building urban and rural settlements, residential and public buildings, utility facilities, sports facilities and medical institutions; • knows the methodology for calculating and assessing public health indicators due to exposure to environmental factors; • knows the rules for organizing and conducting sanitary and hygienic measures for the sanitary protection of water bodies, atmospheric air, soil and indoor air; • knows the device and the principle of operation of the devices: necessary to assess the level of various environmental factors. 	<ul style="list-style-type: none"> • assesses the sanitary and hygienic state of various objects in the event of a complicated sanitary and epidemiological situation; • evaluates the effectiveness of measures to eliminate the waterway of infection, taking into account the characteristics of water supply and water use in a particular area; • carries out precautionary and current sanitary and hygienic supervision of communal hygiene objects and environmental factors; • gives a hygienic assessment of the purity of atmospheric air, soil, and water. 	<p>communicating with the public;</p> <ul style="list-style-type: none"> -has skills in teamwork and leadership skills; • carries out state preventive and current sanitary and epidemiological surveillance in the field of communal hygiene; • conduct examination of project documents of various objects of municipal hygiene; • assesses the effects associated with adverse environmental factors on the health of adults and children.
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11. Prerequisites: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Post requisites: public health, state sanitary and epidemiological surveillance

13. Literature

1. Normative and legal acts, normative-methodical documents of the State Sanitary-Epidemiological Service, sanitary rules and norms on communal hygiene, operating in the territory of the Republic of Kazakhstan.
2. Municipal hygiene / edited by V. Mazaev. At 2 o'clock - M., 2006 - P.1.304s,; Part 2 – 336p.
3. Nemenko B.A., Bekkazinova D. B., Arynova G. A., Elgondina G. B. Guide to practical classes in communal hygiene: Textbook - Almaty, 2008. – 430p.

1. **Department:** "Hygiene and epidemiology"
2. **Level of preparation** (bachelor / internship / magistracy / residency)
3. **Specialty:** “Public Health”
4. **Course:** 3
5. **Name of элективной discipline :** "Nutrition"
6. **Number of credits** - 5
7. **Objective:** to train a public health specialist to conduct state sanitary and epidemiological surveillance in the field of communal hygiene

8. Tasks:

- give to the students modern knowledge about basic theoretical and practical principles of organization of rational feed of healthy and sick man;
- teach to estimate the indexes of quality of food products;
- to teach to expose reasons, terms and risk of origin and distribution factors among the population of the infectious and uninfected diseases related to the food products and to carry out their prophylaxis;
- give knowledge on bases of sanitary norms and rules for the enterprises of food industry;
- to give knowledge on organization of current sanitary supervision sanitary-hygienic inspection enterprises of food industry

9. Ground of choice of discipline : Hygiene of feed is an obligatory and important link in the system of medicine- hygiene sciences, to provide fundamental theoretical knowledge on the base of that all preparation of the future of specially is built on the hygiene of feed. The object of study are nutrition status of man, food value and safety of food products, state sanitary- epidemiological supervision in area of hygiene of feed. Specialists must be ready to adapt oneself to the changing terms of the system and management of health protection at the level of the state and world community, continue educating during all life, to endow in development of society.

10. Results of educating (competenses) :

Knowledge	Skills and abilities	Personal and professional
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(cognitive sphere)	(psychomotor sphere)	competencies (relationships)
<ul style="list-style-type: none"> • knows bases of state sanitary-epidemiology supervision in area of hygiene of feed; • knows the scientific problems of feed and connection of them with a health and ability to work of population, national politics of PK in area of feed; • knows the food and biological value of food products, signs of their high quality and spoilage; knows principles of sanitary guard and hygienical examination of foodstuffs; • knows reasons, terms and risk of origin and distribution factors among the population of infectious and uninfected trophozoonosis and their prophylaxis; • knows methodology of sanitary-hygenic inspection of food enterprises; 	<ul style="list-style-type: none"> • carries out a preventive and current sanitary supervision; • develops and controls implementation of events on rationalization of feed; • conducts events on warning of the food poisoning, acute intestinal infectious diseases and illnesses of alimentary origin; • designs med-sanitary documentation; • carries out the hygienical estimation of food products; • carries out monitoring of quality and safety of food products, health of population. 	<ul style="list-style-type: none"> - give new ideas, - to demonstrate corresponding communicative skills, -to observe principle of homeostasis at intermingling with a population; -to possess skills of work in a command and leader qualities; -to be competent in the questions of integration of sanitary-epidemiology service, community health care and management of health protection; Are draftings of questionnaires and canvassing of population for the study of actual feed; - sanitary- hygiene inspections of food object, drafting of act of inspection and acceptance of measures on liquidation of the detected violations; • prosecuting an inquiry of cases of the food poisoning, cause

<ul style="list-style-type: none"> - knows methodology of investigation and principles of prophylaxis of flashes of the food poisoning. 		establishments and acceptance of measures on their liquidation with drafting of act of investigation.
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11. Prerecvizit: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Postrecvizit: community health care, state sanitary- epidemiology supervision

13. Literature

Basic:

1. Corolev of A. A. Hygiene of feed : textbook. -3-e publ. of work. -M., 2008. 528 p.

2. Terehin C.P., Ahmetova C.B. Curative feed (studying manual). it is Karaganda. 2005. - 385 p.

3. Normative and legal acts, normatively-methodical documents you Government sanitary- epidemiological service, sanitary rules and norms on a hygiene feeds operating on territory of Republic specks of light Kazakhstan.

1. Department: "Social health insurance and public health»

2. Level of training: Bachelor

3. Specialty: "Public health»

4. Course: 3, **Term-**5

5. Name of elective discipline: Basics of financing and Economics in health care

6. Number of credits – 6/180

7. Purpose: to ensure the formation of economic thinking in students, the ability to solve economic problems in the field of professional activity; development of approaches to financing the health care system.

8. Tasks:

- provide students with the necessary information to master professional economic knowledge and skills in the field of economic theory and health Economics;

- to develop students ' professional skills necessary for management in the field of public health and effective use of objectively limited economic resources of health;

- to prepare specialists who are able to navigate freely in a market economy.

9. Rationale for the choice of discipline: health Economics – is a branch of economic science, which studies the effect of economic laws in the specific conditions of implementation and implementation of medical services, as well as the

conditions and factors that ensure the most complete satisfaction of the needs of society in health care and public health free medical care.

It is generally recognized that health is not only a social but also an economic category, despite the fact that it does not belong to the commodity-money categories and is not a product sold and purchased on the market. Health, respectively, has no market price, although it has the highest value for society and the individual. At the same time, the state has to spend huge resources to preserve, strengthen and restore health. Health thus has value, which allows it to be considered in an indirect form as an economic category. New economic relations in health care allow medical institutions to have additional sources of funding not only from the implementation of medical services, but as a result of the execution of works and the provision of services of industrial and service nature.

Discipline "fundamentals of the economy and financing of health care" is the basic discipline of bachelor of public health majoring in 5B110200 - "Public health". In modern conditions, successful activity in the field of health care largely depends on the quality of management decisions, including in the financial and economic management unit.

The study of the discipline "Fundamentals of Economics and financing of health care" will provide a holistic view of the system of financing and Economics in health care, its basic concepts, categories, connection theory with practice, to promote not only the expansion of knowledge about the role and place of health in the market economy, but also the development of economic and managerial thinking.

9. Learning outcomes (competencies):

Knowledge and understanding (to demonstrate knowledge and understanding in the study area, including elements of the most advanced knowledge in this area): knows the role and place of health care in the economic system of society; knows the definition of the health market and its main segments, the principles of market segmentation; knows the legal acts of Kazakhstan regulating the economic and marketing activities of

Application of knowledge and understanding (to apply this knowledge and understanding at the professional level): applies the algorithm of analysis of the market of medical services on the example of a situational problem; calculates the main economic indicators of medical care to the population; evaluates the quality and efficiency of individual doctors and medical organizations as a whole; understands the definition of the health market, its main segments, the principles of market segmentation;

Formation of judgments (to formulate arguments and solve problems in the study area): shows the method of calculating the main economic indicators of medical and preventive care to the population; applies the main economic indicators of medical and preventive care to the population; formulates pricing issues in health care. The essence of taxation and its functions. demonstrates to the audience the possibilities of modern information technologies for solving professional problems.

Communication skills (to communicate information, ideas, problems and solutions to both professionals and non-professionals): able to make an approximate plan of

health facilities; applies the principles of Economics in health care; able to explain to students the types of sources of funding in health care and features.

Skills of training or ability to study (to collect and interpret information to form judgments taking into account social, ethical and scientific considerations): demonstrates the ability to independently perform a separate work; is able to explain the main stages of marketing activities and their application in practice; is able to interpret information about sources of financing in health care, to formulate features of investment of public health organizations in the conditions of PPP and MSHI.

10. Prerequisites: introduction to the specialty, basics of management and public health, biostatistics.

11. Post-requisites: public health, social health insurance and social protection, quality control of the health system.

12. Literature:

Basic:

1. Rakhypbekov, Since Methods of economic analysis in health care: studies.benefit./ - Almaty : AKNUR, 2016. - 342 s
2. Health Economics: textbook / under the editorship of A. V. Reshetnikov. - Moscow : GEOTAR - Media, 2015. - 192 p.
3. Syzdykova, K. sh. Economics and marketing in health care : textbook / . - Almaty : IP "Aknur", 2015. - 274 p.
4. Merry, N. P. Financial law of the Republic of Kazakhstan: textbook / N.. - Almaty : [b. I.], 2015. - 312 p.
5. Health Economics: textbook / under the editorship of A. V. Reshetnikov. - Oh. - Moscow : GEOTAR - Media, 2015. - 192 p.
6. Semenov, V. Yu. health Economics: tutorial / M. : MIA, 2014. - 1000 sec
7. Lisitsyn, Yu. p. Public health and health care : textbook / Yu. p. Lisitsyn, GE ulumbekova, M of education and science. - 3rd ed., pererab. I DOP ; REK. GOU VPO "Mosk First. state honey.UN-t im. I. M. Sechenov". - Moscow : GEOTAR - Media, 2013. - 544 silt.
8. Public health and healthcare, health Economics. In 2 vol. 1 : textbook / - - M.: GEOTAR - Media, 2013
9. Polunin, N. V. Public health and health care: textbook / N. Polunin, V. ; REC. Educational method. 'ed. on honey.farmacii. image. University of Russia. - M. : MIA, 2010. - 544 p.: Il.
10. Public health and healthcare, health Economics. In 2 vol. 2 : textbook / . - Moscow : GEOTAR - Media, 2013. - 160 sec.
11. Tachkulieva, B. B. Denialist economy және қаржыландыру негіздері оқу құралы /; OMPA Dist. Keeshia. gabashane. - Almaty :Evero, 2014. - 208 bet.
12. Kasymov, B. T. Dessaulles: owely /Almaty :Evero, 2016. - 260 bet.

Additional:

1. Akanov, A. public Health and health of the Republic of Kazakhstan [Text] = Population Health and Care of the Republic of kazakstan (White Paper) : monograph / A. Akanov, T. meymanaliev. - ; Rivers'.to ed. Scientist. Council KazNMU them. S. D. Asfendiyarova. - Almaty :Evero, 2014. - 80 p.

2. Rakhypbekov, Since the Basic principles of the formation of the health information system with personalized population :monograph. / T. K. Rakhypbekov ; M-in health RK; LLP "REP. center of innovative technologies med.of education and science", Semey state medical University. - Almaty :Evero, 2012. - 208 p.

3. Financial management : textbook for universities / under the General editorship of A. M. Kovaleva. - 2nd ed., pererab. I DOP. - M.: INFRA-M, 2010.

4. SYSDBA, K. S. Denialist economy me marketing : dream /. - Almaty : AKNUR, 2015. - 214 bet.

Electronic resources:

1. Medic, VA Public health and health [Electronic resource] : textbook /. - Electron.text Dan. (47.6 MB). - Moscow : GEOTAR - Media, 2013. - 608 p. al. wholesale.disc (CD-ROM).

2. Lipsits, I. V. Fundamentals of Economics [Electronic resource] : textbook for honey.schools and colleges / - Electron. text Dan. (39.9 MB). - Moscow : Publishing group "GEOTAR - Media", 2010. - 336 p. El. wholesale. disc (CD-ROM).

1. Department: "Hygiene and epidemiology"

2. Level of preparation (bachelor / internship / magistracy / residency)

3. Specialty: "Public Health"

4. Course: 4

5. Name of elective discipline : "Hygienical researches in the State sanitary-epidemiology supervision"

6. Number credit - 5

7. Aim: study of hygienical methods of research on all divisions hygienes used in a sanitary- epidemiology supervision.

8. Tasks:

- to acquaint with the modern methods of hygienical research;

- to teach to use laboratory equipment and devices in practice

9. Ground of choice of discipline: for realization of sanitary- epidemiology supervision the use of laboratory place and devices is needed. Application of laboratory equipments gives an opportunity really to estimate the state of this object. Therefore the specialists of MPB need this elective discipline.

10. Results of educating (competenses) :

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
- knows modern hygienical researches;	-работает by different laboratory devices;	-give new ideas;

<p>- knows the laboratory equipments of every department;</p> <p>- knows principles of work of devices of ИСПОЛЬЗУЕМЫХ in practice.</p>	<p>- work and lacks of methods of hygienical research estimates;</p> <p>- analyses the got results.</p>	<p>- demonstrates corresponding communicative skills;</p> <p>-to observe principles of hodegetics at intermingling with a population;</p> <p>- to observe skills of work in a command and leader qualities.</p>
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11. Prerecvizit: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Postrecvizit: articles of city council.

13. Literature

Basic:

1. Communal hygiene /Edited Mazaev B.T. In 2 . -, 2007 - 4.1.-304 p.; . 2. - 336 p.
2. Guidance to laboratory employments on a general hygiene. - M., 2009.-736c.
3. Hygiene of feed : studies. establishments/ Королев А.А. - М.: the Publishing center "Academy", 2006.- 528 p.
4. Terehin of C.P., Ahmetova C.B. Curative feed (studying manual). it is Karaganda. 2005. - 385 p.
5. Normative and legal acts, normatively-methodical documents you Government sanitary- epidemiology service, sanitary rules and norms on a hygiene feeds operating on territory of RK

1. Department: "Hygiene and epidemiology"

2. Level of preparation (bachelor / internship / magistracy / residency)

3. Specialty: "Public Health"

4. Course: 4

5. Name of elictive discipline : "Hygiene of organizations of health protection and prophylaxis in-hospital to the infection"

6. Number credit - 5

7. Aim: to pawn knowledge and abilities, necessary for mastering of legislative base, theoretical and applied aspects of preventive and current supervision in area of hygiene of medical and preventive establishments and prophylaxis of in-hospital infections.

8.Tasks:

- to acquaint the hygienes of medical and preventive establishments with theoretical and methodological bases;

- to teach to develop the complex of norms and requirement to placing, planning and sanitary-technical providing of medical and preventive establishments with the purpose of creation of optimal terms of stay of patients, effective realization of curative process and favourable terms of labour of medical personnel.

9. Ground of choice of discipline : Quality of medical service of population in a great deal depends on the level of the sanitary equipping with modern amenities of network of different medical and preventive establishments (dispensaries, honey.centers, policlinics, SES, station). Being in LPU, patients are constantly exposed to complex influence of physical, chemical and biological factors.

From physical factors basic is littledynamic microclimate parameters as, temperature, humidity, atmospheric pressure and mobility of air, noise, EMP, II. Composition of air environment in LPU has a specific complex of chemical contamination.

The very specific and original factor of hospital environment are causative agents of BBI, dwellings on all her objects and striking both patients and personnel of LPU. BBI results in lengthening of terms of stay of patients and his treatment. From having data, BBI suffer from 5 to 12% of incurrance of the hospitalized patients. Main yellow-green doctors are arrived at by 44,6%, among train nurse -55,3%, among junior nurses - 75%. In discipline given questions occupational of medical staff health.

For optimization of factors of in-hospital environment and heterospecific prophylaxis of BBI, and also for the study of feature of medical organizations for the future specialists of MPW and PH this elective discipline is needed.

10.Result educating (Competenses)

<p>Knowledge (cognitive sphere)</p>	<p>Skills and abilities (psychomotor sphere)</p>	<p>Personal and professional competencies (relationships)</p>
<p>- knows sanitary-epidemiology requirements to placing, equipping with modern amenities and equipment of objects of LPU; - knows methodology of realization of deep, raid and планового inspection of medical</p>	<p>- carries out a preventive and current sanitary- epidemiology supervision in the objects of LPU; -start examination of project documents of different objects of LPU; - determines indexes and to give the hygienical estimation of</p>	<p>- to be sociable, - to possess a broad mind, -give new ideas, quikly to adapt oneself to the changes of society and system of health protection, -analiz and to plan the</p>

<p>and preventive establishments;</p> <ul style="list-style-type: none"> - knows methodology of realization of prophylaxis of in-hospital infections; - maintenance of basic normative legal acts and requirements knows to the hyena of medical and preventive establishments; - knows the value of medical wastes, their classification, methods of utilization; - the hygienical value of disinfection control of LPU knows; - знает basic types of in-hospital infections, prophylaxis of BBI; - knows the specific of terms of labour of different medical professions. 	<p>apartments of medical and preventive establishments and recommendations on optimization of terms of stay of patients in LPU;</p> <ul style="list-style-type: none"> - recomendent rational placing of patients in medical and preventive establishments with the purpose of warning of BBI;; - to observe sanitary-technical equipment of medical and preventive establishments; - to use operating legislative, instructional and methodical материалы on the division of hygiene of medical and preventive establishments and BBI in medical activity. 	<p>professional activity.</p> <ul style="list-style-type: none"> - to be ready to decide the system-problem tasks of realization of sanitary- epidemiology supervision in practical activity; - to demonstrate corresponding communicative skills, observing principles of medical etica at intermingling with a population, co-operating with colleagues; - to possess skills of work in a command and leader qualities; - to be able to teach other and perfect the knowledge and skills on extents of all professional activity.
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11. Prerecvizit: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Postrecvizit: articles of city council.

13. Leterature

Basic:

1. Communal hygiene / edited Mazaeva B.T. In 2 ч. - М., 2006 - Ч.1. -304с. ; Ч.2. - 336с.

2. Nemenko .A., Bekkazinova.B., Arynova .A., Elgondina.B. Guidance to practical employments on a communal hygiene: Textbook is ALmaty, 2008. - 430с.

additional:

1. Mazaeva B.T Communal hygiene. In 2 ч. Ч. 1 [Electron resource]: a textbook for institutions of higher learning is a 2th publ., испр. and. доп. it is an electron.

Text . (35,7 MB). -М.: the Publishing group "ГЭОТАР are Medias", 2009-304 с.ЭЛ.ОПТ. disk (CD ROM).

2. Mazaeva B.T Communal hygiene. In 2 ч. Ч. 2 [Electron resource]: textbook for institutions of higher learning. it is an electron. Text data (36,6 MB). - М.: the Publishing group "ГЭОТАР are Medias", 2009-336 с.ЭЛ.ОПТ. disk (CD ROM).

3. Неменко Б.А. Communal hygiene. (Textbook). it is Алматы: WITH one's the face touching the ground "Gylym", 2003-464 p.

4. Communal hygiene/ edited - -: Health, 2006.- 792 p.

5 .General hygiene /under . М., 2006.-736 p.

1. Department: "Hygiene and epidemiology"

2. Level of preparation (bakalavr/ housemanship / city council / резидентура

3. Specialty: "Public Health"

4.Course: 4

5. Name of элективной discipline : "Private epidemiology with bases of disinfection business"

6. Number credit - 5

7. Aim: forming for the students of theoretical knowledge and practical skills of exposure of reasons and terms of origin and distributions of infectious diseases among a population, ground of organization and of realization prophylactic and the противоэпидемических events sent to warning of infectious diseases among certain groups of population, decline of infectious morbidity of the combined population and liquidation of separate infections.

8. Tasks: to teach to realization of control after the observance of дезинфекционно- of the sterilization mode in medical and preventive establishments;

-to give knowledge on theoretical, methodical and organizational bases of epidemiology supervision after infectious and паразитарными diseases;

-to teach to organize events on the sanitary guard of territory of the state from skidding and distribution of infectious diseases.

-to give knowledge on bases of disinfection and стерилиз

9. Justification of the choice of discipline: Private epidemiology with the basics of disinfection as the general medical science and the science of the epidemic process. Anti-epidemic measures. The principle of complexity in carrying out anti-epidemic measures, identifying the main directions. Preventive and anti-epidemic work at the medical site. The method of epidemiological foci. The purpose and objectives of the survey, the main stages.

10. Learning Outcomes (Competences)

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relations)
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<p>- owns the principles of organizing and conducting research in the field of epidemiology;</p> <p>- knows the basic principles of epidemiological surveillance for various groups of infectious and parasitic diseases, the geographical distribution of natural focal infections and methods of control;</p> <p>-knows the method of calculating the intensive and extensive indicators, assessing the indicators of epidemiological analysis, predicting the manifestations of the epidemic process of infectious and non-communicable diseases;</p> <p>-Knows the Code of the Republic of Kazakhstan "On the health of the people and the health care system";</p> <p>-knows the method of calculation and evaluation of indicators of public health.</p>	<ul style="list-style-type: none"> - is able to transfer to students / teachers / examiners their own knowledge and skills in case of urgent, emergency anti-epidemic measures, in case of suspicion of quarantine infection; - able to search, scientific development and analysis of infectious morbidity of the population; - able to promote healthy lifestyle among the population; - able to implement methods of collecting, storing and processing information used in epidemiology; - is able to transfer to students their own knowledge and skills in working with information (educational, reference, scientific); - Own the skills of public speaking with the presentation of their own judgments, analysis and synthesis of information in the studied area. 	<ul style="list-style-type: none"> - able to conduct sanitary-epidemiological examination of controlled objects; - able to conduct research in the field of this discipline; - able to develop a set of measures for the prevention and reduction of infectious diseases, the prevention of importation and the spread of especially dangerous infections; - able to maintain accounting records using computer technology; - able to present and interpret legislation on the protection of public health, sanitary, environmental legislation of the Republic of Kazakhstan, the legal framework for the activities of specialists of the state sanitary and epidemiological service; - is able to present personal judgments, arrange in the form of an abstract, presentation, project and present at practical classes,
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		student meetings, student scientific conferences, etc...
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11. Prerequisites: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Post requisites: graduate subjects.

13. Literature

Primary:

main:

1. Amireev S.A. Standards and algorithms for activities with infectious diseases. Volume 1: A Practical Guide. –Evero, 2014.

2. Amireev S.A. Standards and algorithms for activities with infectious diseases. Volume 2: a practical guide. –Evero, 2014.

3. Infectious diseases and epidemiology: a textbook. - M.: GEOTAR - Media, 2013.-

additional:

1. S. A. Amireev Immunization in practice [Text]: a practical guide / [and others]. - Almaty: [b. and.], 2013. - 448 p.

2. Alshinbaeva, G. U. Infectious diseases with the basics of epidemiology: a textbook. - Astana: ANKr, 2014. - 364 p.

3. Duysenbaeva, P. R. Current approaches to the study of epidemiology, clinic, diagnosis, treatment, prevention of measles, rubella, chicken pox and scarlet fever in children: a textbook. - Almaty: Evero, 2014. - 140 p.

4. Epidemiology. In 2 t. T. 1: textbook / N. I. Briko [et al.]. -; Rec. GBOU VPO "First MGMU them. IM Sechenov". - M.: Medical Information Agency LLC, 2013. - 832 p. : il.

5. Epidemiology. In 2 t. T. 2: textbook / N. I. Briko. -; Rec. GBOU VPO "First MGMU them. IM Sechenov". - M.: Medical Information Agency LLC, 2013. - 656 pp., Ill.

Electronic resources.

1. Infectious diseases and epidemiology [Electronic resource]: studies. for honey Universities / V.I.Pokrovsky [et al.]. - Electronic text data. (39.6 MB) - M., 2009. - 816 hrs. El. opt.disk (CD-ROM). - 1 copy

2. Schloss Leopoldskron Infectious Diseases and Epidemiology '98 [Electronic resource]: cornell Seminar in Saizburg / Leopoldskron Schloss. - Electron. text data. (623 MB). [S. l. : s.n.], 1998. - email. opt.disk (CD-ROM). - 1 copy

Translation of the title: Infectious diseases and epidemiology.

1. Department: "Hygiene and epidemiology"

2. Level of preparation (bachelor / internship / magistracy / residency)

3.Speciality: Public Health

4. Course: 4

5. Name of elective discipline: Clinical epidemiology

6. The number of credits - 5

7. The purpose of the development and application of such methods of clinical observation, which enable students to do fair conclusions, conduct retrospective and prospective studies.

8. Tasks: to give students knowledge about the basic terms of clinical epidemiology;

- teach students to distinguish between the main types of clinical research;
- teach basic skills in using a database of clinical epidemiology;
- teach how to critically evaluate medical information regarding clinical epidemiology;
- to give knowledge of the theoretical, methodological and organizational bases of clinical diagnosis for infectious and parasitic diseases;
- to give knowledge of the basics of disinfection and sterilization.

2. Justification of the choice of discipline: Clinical epidemiology is the selection and systematization of reliable results of various methods of diagnosis and treatment, the development and application of methods of clinical observation, which make it possible to draw fair conclusions, avoiding the influence of systematic and random errors. To exclude systematic errors take into account the features of patient selection.

10. Learning Results (Competences)

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relations)
<ul style="list-style-type: none">– knows the methods of clinical research, the system of epidemiological diagnosis;– owns the principles of organizing and conducting research in the field of clinical epidemiology;	<ul style="list-style-type: none">– able to conduct clinical research facilities;– able to conduct research in the field of this discipline;– able to develop a set of measures for the prevention and reduction of infectious diseases, the prevention of importation and the spread of especially dangerous infections;	<ul style="list-style-type: none">– able to promote healthy lifestyle among the population;– able to implement methods of collecting, storing and processing

<ul style="list-style-type: none"> - knows the method of calculating intensive and extensive indicators, assessing the clinical research indicators, predicting the manifestations of the epidemic process of infectious and non-communicable diseases; - knows the Code of the Republic of Kazakhstan "On the health of the people and the health care system"; - Knows the methodology for calculating and assessing population health indicators. 	<ul style="list-style-type: none"> - able to maintain accounting records using computer technology; - able to present and interpret legislation on the protection of public health, sanitary, environmental legislation of the Republic of Kazakhstan, the legal framework for the activities of specialists of the state sanitary and epidemiological service; - is able to present personal judgments, arrange in the form of an abstract, presentation, project and present at practical classes, student meetings, student scientific conferences, etc. 	<p>information used in clinical epidemiology;</p> <ul style="list-style-type: none"> - is able to transfer to students their own knowledge and skills in working with information (educational, reference, scientific); - Own the skills of public speaking with the presentation of their own judgments, analysis and synthesis of information in the studied area.
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11. Prerequisites: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Post requisites: graduate subjects.

13. Literature

main:

1. Amireev S.A. Standards and algorithms for activities with infectious diseases. Volume 1: A Practical Guide. –Evero, 2014.

2. Amireev S.A. Standards and algorithms for activities with infectious diseases. Volume 2: a practical guide. –Evero, 2014.

3. Infectious diseases and epidemiology: a textbook. - M.: GEOTAR - Media, 2013.-

additional:

1. S. A. Amireev Immunization in practice [Text]: a practical guide / [and others]. - Almaty: [b. and.], 2013. - 448 p.

2. Alshinbaeva, G. U. Infectious diseases with the basics of epidemiology: a textbook. - Astana: ANKr, 2014. - 364 p.

3. Duysenbaeva, P. R. Current approaches to the study of epidemiology, clinic, diagnosis, treatment, prevention of measles, rubella, chicken pox and scarlet fever in children: a textbook. - Almaty: Evero, 2014. - 140 p.

4. Epidemiology. In 2 t. T. 1: textbook / N. I. Briko [et al.]. -; Rec. GBOU VPO "First MG MU them. IM Sechenov". - M.: Medical Information Agency LLC, 2013. - 832 p. : il.

5. Epidemiology. In 2 t. T. 2: textbook / N. I. Briko. -; Rec. GBOU VPO "First MG MU them. IM Sechenov". - M.: Medical Information Agency LLC, 2013. - 656 pp., Ill.

Electronic resources.

1. Infectious diseases and epidemiology [Electronic resource]: studies. for honey Universities / V.I.Pokrovsky [et al.]. - Electronic text data. (39.6 MB) - M., 2009. - 816 hrs. El. opt.disk (CD-ROM). - 1 copy

2. Schloss Leopoldskron Infectious Diseases and Epidemiology '98 [Electronic resource]: cornell Seminar in Saizburg / Leopoldskron Schloss. - Electron. text data. (623 MB). [S. 1. : s.n.], 1998. - email. opt.disk (CD-ROM). - 1 copy

Translation of the title: Infectious diseases and epidemiology.

1. Department: "Hygiene and epidemiology"

2. Level of preparation (bachelor / internship / magistracy / residency)

3. Specialty: "Public Health"

4. Course: 4

5. Name of elective discipline: Ecological safety of society

6. Number of credits - 5

7. Purpose: to study the adverse effects of environmental factors on public health in certain areas. Exploring ways to eliminate or reduce adverse effects on human health.

8. Tasks:

- to give knowledge about the indicators of the body systems as a criterion for assessing the environmental safety of society;
- teach the assessment of the role of the main indicator in the complex effects of various environmental factors (radionuclides, mineral fertilizers, EMF, etc.);
- the study of the environmental aspects of negative and positive environmental factors on human health;
- assessment of the capacity of medical, safety of ecological landscapes;
- formation of medical, environmental awareness among the population.

9. The rationale for the choice of discipline: The environmental safety of society is a scientific field that develops at the interface of medicine and ecology, studies the environment and the general patterns of disturbances in human health under the influence of a polluted environment. Currently, medical ecology is at the stage of rapid development. Concepts, terminological concepts, assessment criteria,

methodology, and theoretical foundations of medical ecology have not yet been defined; there are also no qualified specialists in this field.

10. Learning Outcomes (Competences)

<p style="text-align: center;">Knowledge (cognitive sphere)</p>	<p style="text-align: center;">Skills and abilities (psychomotor sphere)</p>
<ul style="list-style-type: none"> - knows the goals and objectives of medical ecology; -knows the objects of study and the methods used medical ecology; - knows sections of medical ecology; -Knows environmental factors affecting the human body, their classification. - knows voluntary risk factors; - knows the basis of terminology and the concept of medical ecology; - knows global and regional aspects of medical ecology; - knows the danger of environmental impacts and adverse effects on human health; -Knows the value of practical medical ecology; - knows the health features of the urban and rural population; - knows the effect of polluted air on health and living conditions of the population; -knows the impact of the consequences of environmental pollution of the lithosphere on human health; - knows about environmental pathology, the reasons for their occurrence: 	<ul style="list-style-type: none"> able to apply knowledge of the laws of the interaction of the organism and the environmental safety of society as one of the methods for solving professional issues; - able to assess the interaction of environmental factors among themselves and their impact on public health; - able to determine the degree of impact on the health of the population of environmental pollution: - atmospheric air - hydrospheres - lithosphere - able to identify the environmental safety of society, which may have an impact on public health; - able to assess the quality of the ecological safety of society and analyze the cause of the development of environmental diseases; - able to analyze the state of the ecological fund and the human gene pool and organize measures for their improvement;

11. Prerequisites: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Post requisites: graduate subjects.

13. Literature

main:

1. Ivanov V.P. General and Medical Ecology: a textbook. — Rostov n / D: Phoenix, 2010
2. Medical ecology: a manual for students of medical universities / ed. A.A. Korolev.- M.: EC "Academy", 2003.-192s.
3. Kenesaries Y.I. Ecology zheңne törfyндar densaulығу: Оқу құралы - Almaty, Evero, 2009
4. Kenesaries Y.I. Ecology zhane halyқ densaulығу: Оқу құралы - Almaty, Glym, 2003
5. Vasilenko O.I. Radiation ecology: a manual for students of medical universities, -M: Medicine, 2004
6. Kenesaries ev.I. Ecology and public health; Training For medical universities and colleges, Almaty: SIC Glym, 2002

Additional Community:

1. Lakshin A.M. general hygiene with basic human ecology; textbook-M., Medicine, 2004
2. Pivovarov Yu.P. Hygiene and fundamentals of human ecology: a textbook. –M: Academy Publishing Center, 2004
3. Pivovarov Yu.P. Hygiene and fundamentals of human ecology: a textbook. For medical universities. Rostov n / D: Fenix, 2002 Krymskaya I.G.
4. Hygiene and fundamentals of human ecology: study guide. - Rostov n / D: Phoenix, 2007
5. Vasilenko O.I. Radiation ecology: a manual for students of medical universities, -M: Medicine, 2004

1. **Department:** "Social health insurance and public health»
2. **Level of training:** bachelor
3. **Specialization:** "Public health»
4. **Course: 4. Term-6**
5. **Name of elective discipline:** "Health Information systems»
6. **Number of credits – 6/180**
7. **Purpose:** Formation of the foundations of professional competencies and skills in the field of information management in the framework of the modern model of health of the Republic of Kazakhstan.

Formation of students' complex knowledge, skills and abilities necessary for the effective implementation of innovative management methods in practical health care in a market economy, to form a comprehensive view of students about innovation in health care.

8. Tasks:

- to form knowledge of the basics of information systems used in health care;

- demonstrate the capabilities of health information systems.
 - instilling skills of independent work with sources of innovative character;
 - to form knowledge of the basics of innovative management in practical health care and management in public health
- development of health care managers ' knowledge about the principles of successful management;
- system organization of quality control, basic management concepts;
 - to study the procedure of accreditation in health care;
 - to study the procedure of certification in health care;
 - to develop an interdisciplinary approach to patient care and treatment and to enable professionals working in the organization to be responsible for quality.

9. Rationale for the choice of discipline

The peculiarity of modern society is the continuous exchange of information. Complete, reliable, up-to-date information is a necessary condition for the successful functioning of any organization. The management process is primarily associated with information exchange between subjects and objects of management. Therefore, information support plays an important role in management. The development of information and communication technologies (ICT) and the global Internet have significantly improved the effectiveness of government activities. Today about 200 countries of the world create "electronic governments". The emergence of "electronic government" in the Republic of Kazakhstan is a practical mechanism of an open legal society, providing interactive services that require two-way communication between citizens and government agencies.

10. Learning outcomes (competencies):

1). Knowledge and understanding (to demonstrate knowledge and understanding in the study area, including elements of the most advanced knowledge in this area): knows the possibilities of modern information technology to solve professional problems, the basics of the organization of medical care, the basics of health insurance, social insurance and social security, the main indicators of the various institutions of the health system, demonstrates knowledge and understanding in the study area, including elements of the most advanced knowledge in this area,

2). Application of knowledge and understanding (to apply this knowledge and understanding at the professional level): is able to use information and educational technologies, is able to use the capabilities of modern information technologies to solve professional problems, is able to use various forms of training, is able to identify and assess risk factors for public health, choose methods and means of hygienic training and education depending on the specific situation, including for patients from social risk groups.

3). Formation of judgments (to formulate arguments and solve problems in the field of study): formulates arguments on the use of the legal framework of the industry in their professional activities, introduces various forms of education, proves the possibility of information and educational technology, formulates arguments for the implementation of the principles of organization of medical care to certain groups of the population, formulates arguments to promote a healthy lifestyle among the population.

4). Learning skills or ability to learn (you can make the collection and interpretation of information to inform judgments taking into account social, ethical and nauch reasons): differential basis of application of statistical method to research, realize the issues of organization of medical examination that demonstrates his ability to master organizational technique, proves to the audience the possibilities of modern information technologies for solving professional tasks, showing the skills of organizational equipment, checks the main performance indicators of various health care institutions.

5). Communication skills (to communicate information, ideas, problems and solutions to both professionals and non-professionals): shows the skills of organizational technique, is able to convey to students, teachers, examiners own knowledge about the legislation of public health, sanitary, environmental legislation of the Republic of Kazakhstan, the legal basis of the activities of specialists of medical organizations and institutions, to criticize the modern theory of medicine, population and health shows the rules of filling the standard medical documentation, able to explain to students the Code of the Republic of Kazakhstan On the health of the people in the health care system.

11. Prerequisites: biostatistics, fundamentals of public health management.

12. Post-requisites: public health, magistracy disciplines

13. Literature

Basic:

DRS Kesan - Kogamdyk Densaulyk Saturday aparati, tekhnologiyalar PN boiynsha: DRS Kesan / kogamdyk Densaulyk satou - 2 kafedراس. - Shymkent : OMPA, 2016. - 75 bet. S. AFR.

Development of methodical approaches to optimization of information support of specialists (doctors and pharmacists) - based on computer technology : methodical REC. / K. D. Shertaeva [and others]. - Astana - Shymkent : UKGM, 2008

Electronic resources

Development of methodical approaches to optimization of information support of specialists (doctors and pharmacists) - based on computer technology [Electronic resource] : methodical REC. / K. D. Shertaeva [and others]. - Electron. text Dan. (220 KB). - Astana - Shymkent , 2008