



EDUCATIONAL PROGRAM

Educational program code 6B10105

Name of the educational program "Public health"

Level of the educational program: Bachelor

MEDISINA AKADEMIASY

«Оңтүстік Қазақстан медицина академиясы» АҚ



SOUTH RAZARHSTAN

MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

"Social Medical Insurance and Public Health" department

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The educational program was developed by the members of the educational program Committee "Public Health":

Head of the Department "Social Health Insurance and Public Health", Candidate of Medical Science, Associate Professor Sarsenbayeva G.Zh.

Senior lecturer of the Department "Social Health insurance and Public Health"

Agreed with employers:

Head of RSI Shymkent CQCSGS Ministry of health of the RK

Director of the «Association of private Clinics of South Kazakhstan Region»

The Chairman of the EPC "Public Health"

Protocol Ne from « OS» O8/22x.

Approved by the Methodological Council Vice-rector for Educational and methodical and Student Well- Being work

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Approved by the Academic Council

Protocol Not from IS » Of 2022

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OŃTÚSTIK QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ Онтустік Қазақстан медицина академиясы» АҚ	
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Passport of the educational program 6B10105 "Public health"

1. Normative documents for the development of a modular educational program: (state standards of education, professional standards (if available) etc.)

- Code of the Republic of Kazakhstan dated July 7, 2020 No. 360-VI The Law of the RK. "On public health and healthcare system", with amendments and additions as of 04.07.2022.
- The Law of the Republic of Kazakhstan "On Education" dated 27.07.2007 No. 319-III, with amendments and additions dated 14.07.2022 No. 141-VII.
- Order of the Ministry of Health of the Republic of Kazakhstan "On approval of state mandatory standards for levels of education in the field of healthcare" dated July 4, 2022 No. RK HcM-63.
- Order of the Minister of Science and Higher Education of the Republic of Kazakhstan "On approval of state mandatory standards of higher and postgraduate Education" dated July 20, 2022 No. 2.
- Order of the Ministry of Education and Science of the Republic of Kazakhstan "On approval of the Rules for organizing the educational process on credit technology of education" dated April 20, 2011 No. 152, with amendments and additions as of 05/06/2021.
- Order of the Ministry of Health of the Republic of Kazakhstan "On approval of the nomenclature of specialties and specializations in the field of healthcare, nomenclature and qualification characteristics of positions of healthcare workers" dated December 21, 2020 No. RK HcM-305/2020, with amendments and additions as of 04/09/2021.
- Order of the Ministry of Education and Science of the Republic of Kazakhstan "Standard rules for the ongoing monitoring of academic performance, intermediate and final certification of students in higher educational institutions" dated March 18, 2008 No. 125, with amendments and additions as of 12.05.2022.
- "Standard Rules for the activities of organizations implementing higher and postgraduate education", Decree of the Government of the Republic of Kazakhstan dated October 30, 2018 No. 595 with amendments and additions as of 12/29/2021.
- Internal regulatory documents of JSC SKMA.
- 2. Professional field: health Manager (quality health services for strategy and marketing of medical services, organization and methodology of medical services); Manager personnel (HR-M) in health care; specialist of public health (statistician, methodologist); head of Department of organization of health care; the Deputy head of the healthcare institution; the head of the organization of health; specialist in epidemiology, municipal hygiene, child and adolescent hygiene, occupational hygiene, food hygiene, radiation hygiene, virologist, bacteriologist, parasitologist.

3. Objects of professional activity:

- Government agencies, medical organizations, social protection, medical insurance, pharmaceutical companies and companies, agencies for ensuring the quality of health services, public and professional associations, industrial health services, etc.

types of professional activity:

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- organizational and managerial support
- information and analytical support;
- accounting and statistical information;
- control and regulatory information;
- sanitary and educational activities;
- research and development;
- educational (pedagogical)

General information

No	Field name	Note
1	Registration number	
2	Code and classification of the field of education	6B10 Healthcare and social security (medicine)
3	Code and classification of training areas	6B101 Healthcare
4	Group of educational programs	B089 Public health
5	Name of the educational program	"Public Health" (academic Bachelor's degree)
6	Type of EP	Acting EP
7	Purpose of the EP	Organizational and managerial activities in the health care system aimed at improving public health and taking sanitary and hygienic and preventive measures among the population.
8	ISCED level	6
9	NQF level	6
10	SQF level	6.1
	Distinctive features of the EP	No
11	The Univercity partner (JEP)	-
	The Univercity partner (DOP)	-
12	List of competencies	The matrix of correlation of learning outcomes according to the educational program with the
13	Learning outcomes	formed competencies is formed (Appendix 2.1)
14	Form of training	The field value must be obtained from the IS of the specified university.
15	Language of instruction	Kazakh/ Russian
16	Volume of loans	240
17	Academic degree awarded	Bachelor

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18	Availability of an appendix to the license for the direction of training	-
	The presence of the accreditation EP	-
19	Name of the accreditation body	-
	Validity period of accreditation	-
20	Information about the disciplines	Information about UC/EC disciplines of GED, BD, PD (Appendix 2.2)

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Appendix 2.1

Matrix of correlation of learning outcomes according to the educational program as a whole with the formed competencies

	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
CC1	+	+		+	+					
CC2	+	+					+		+	
CC3		+				+				
CC4	+		+	+		+	+			+
CC5			+						+	+
CC6		+	+			+	+	+		
CC7			+				+	+		
CC8	+	+			+					

Core competencies:

CC 1	Uses basic and natural science knowledge to carry out activities in the field of public health protection and sanitary and epidemiological welfare of the population.
CC 2	Conducts sanitary and educational work among the population on the formation of a healthy lifestyle. Informs the population, health care workers on public health issues.
CC 3	Defines strategies, management of processes and activities (including innovation) with decision-making and responsibility at the level of institutional structures of public health.
CC 4	Carries out executive activities in the field of public health protection and sanitary-epidemiological welfare of the population with the definition of tasks and planning of activities taking into account the set goal.
CC 5	Demonstrates leadership qualities, innovation and independence in work and educational activities in new contexts that require problem solving.
CC 6	Demonstrates the ability to independently manage and control the process of labor and educational activities within the framework of the strategy, policy and goals of the health organization, competently operate with information.
CC 7	Applies a creative approach (skills and abilities) to independently develop and put forward alternative solutions to management problems in the field of public health and sanitary-epidemiological well-being
CC 8	Observes in practice ethical and legal norms based on psychology and cultural studies of modern society.

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Learning outcomes:

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	Learning outcomes.
LO 1	Understands the basic definitions, models and concepts of health, diseases, the most important aspects of history, philosophy and socio-political knowledge, forming communication skills within a given topic with the development of knowledge of languages.
LO 2	Understands the methods of determining the basic epidemiological and demographic parameters for the implementation of measures to protect public health and sanitary-epidemiological welfare of the population.
LO 3	Identifies population health risk factors for calculating, evaluating and analyzing biomedical statistics using information and communication technologies as part of informatization of the modern healthcare system.
LO 4	Applies various methods and methods of organizing the management of health care institutions in solving practical problems for the protection of public health and sanitary-epidemiological welfare of the population.
LO 5	Applies standards when collecting data to determine health outcomes, participating in ensuring sanitary and epidemiological well-being and conducting anti-epidemic measures.
LO 6	Carries out visual agitation and promotion of a healthy lifestyle, effectively presenting information, interacting with the media, within the framework of the CSHI and medical legislation.
LO 7	Implements social work among the decreed segment of the population explaining issues of medical and hygienic education, lifestyle correction, medical and social aspects of major diseases, improving teamwork skills and observing moral and ethical standards.
LO 8	Conducts current and preventive surveillance, assessment and correction of activities in the field of public health protection and sanitary and epidemiological welfare of the population, identifying the main trends in changes in the socio-economic environment.
LO 9	Defines modern management and control methods for human resource management and registration of necessary accounting and reporting documentation in the healthcare information system.
LO 10	Examines the impact of both the political and economic situation on the health system and the sanitary and epidemiological well-being of the population, analyzing and evaluating scientific publications and research.

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Appendix 2.2

Information about the disciplines

№	Name of the discipline Brief course description (30-50 words) Cycle of general education disciplines		Number of credits	Formed competencies (codes)	Formed Learning outcomes (codes)				
	Compulsory component								
1	Modern history of	Kazakhstan on the way to independence. Implementation of the	5	CC2	LO1				
	Kazakhstan	Soviet state building models. Attracting foreign investment of		CC5	LO4				
		Kazakhstan and health care. Ethno-demographic processes and		CC8	LO6				
		strengthening of interethnic consent. Kazakhstan is a state recognized			LO10				
		as modern the world. Formation of a nation of a single future.							
2	Philosophy	Philosophy as a science. Philosophy and worldview. Role of	5	CC2	LO1				
		philosophy in implementation of the third modernization in modern		CC4	LO2				
		Kazakhstan. Origin and essence of consciousness. Cognition as a		CC5	LO9				
		problem of philosophy. Education, science, engineering and		CC6					
		technology. Society and culture. Religion and philosophical							
		knowledge. Civilizational identification of Kazakhstan in a global							
		world.							
3	Psychology and Cultural	Psychology of personality and role in the system of human sciences.	4	CC5	LO1				
	Studies	Emotions and volitional processes. Interests spiritual of personality.		CC6	LO4				
		Psychology of communication. Models conflict interactions. Concept		CC8	LO6				
		culture. Culture of the nomads of Kazakhstan. Kazakh culture in XV-			LO10				
		XX centuries. Psychology of lifestyle of Kazakhstan XXI century.							
4	Sociology and political	Individual and society. Sociological research. Family and modernity.	4	CC2	LO1				
	science	Education and social inequality. Health and medicine. Politics and		CC4	LO3				
		society. Elite and political leadership. State and civil society. Political		CC5	LO10				
		culture and political behavior. Political conflicts and crises. World		CC7					
		politics and modern international relationships.							
5	Foreign language	Greetings and introducing yourself. Describing appearance. Family	10	CC2	LO6				
		members and family types. Daily routines. Free time. Food and		CC5	LO10				

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		nutrition. Healthy food. Man and health. Homeland and hometown.		CC8	
		Travel and geographical location. House and housing. Environmental			
		problems. Education and professional competencies. Healthy			
		lifestyle. Modern gadgets. Science and technology.			
6	Kazakh (Russian)	Languages and education. Terminology of science. Specialty	10	CC2	LO6
	Language	language and professional culture of speech. Types of professional		CC3	LO10
		communicative situations. Written and oral business communication.		CC4	
		Terminology of science. Culture of professional speech. Types of		CC6	
		professional communicative situations. Actual problems of modern			
		science. Text as the basic unit of verbal communication. Scientific			
		description.			
7	Information and	An ICT role in key sectors of development of society. Introduction	5	CC1	LO3
	communication	computer systems. Software. Operating systems. Human-computer		CC2	LO9
	technology	interaction. Database systems. Data analysis. Data management.		CC6	
		Networks and telecommunications. Cybersecurity. Internet			
		technology. Cloud, mobile technology. Multimedia, SMART			
		technology. E-technology. Information technology in the professional			
		sphere. Industrial ICT. Prospects of development of ICT.		001	7.01
8	Physical education	Training specifically - running exercises. General concepts of	8	CC1	LO1
		basketball. Learning to run short distances. High start and		CC2	LO3
		finish training. Cross running for long distances. Working with			LO4
		a baton. Low start and takeoff training. Long jump training.			
		Teaching movement techniques, jumping.			
		Cycle of general education disciplines Elective component			
9	Leadership and power	Key competence's areas for management. The concept of	5	CC1	LO4
7	Leadership and power	"leadership", "management". The most important elements of	3	CC1	LO4 LO9
		leadership. Leadership styles, their characteristics. Leadership in the		CC6	LO10
		context of health policy, practice. Destructive leadership, its		CC8	LOIU
		elimination. Innovative approaches to strengthening health systems.			
		The concepts of power, influence, authority, authority. Power types.			
		The relationship between power types and leadership.			
		The relationship between power types and readership.			

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10	Fundamentals of Economics and Law	Legal education, anti-corruption culture development of future specialists within framework of state program "Rukhani Zhangyru". Legal status of medical workers, their social security. Code of RK "On population health and healthcare system". Market and competition. Theory of firm and entrepreneurship. Development features of national economy in RK. State policy in medical industry	5	CC1 CC5 CC6 CC8	LO1 LO6 LO7
		development.			
11	Ecology and life safety	Purpose, objectives, methods of ecology research. The place and role of ecology in solving economic problems. Environment, human health. Sources of pollution, composition. The causal relationship of the general morbidity of the population with environmental factors, solutions aimed at reducing the burden on the environment. Ensuring the safety of life.	5	CC1 CC5 CC6	LO1 LO2 LO3
		Cycle of basic disciplines			
		University component			
12	Biostatistics	Fundamentals of biostatistics. Fundamentals of the theory of testing	5	CC1	LO3
		statistical hypotheses. Comparison of the mean values of the trait of		CC3	LO4
		two groups. Non-parametric alternative. One-way analysis of		CC6	
		variance. Correlation analysis. Regression analysis. Analysis of		CC7	
		qualitative features. Analysis of time series. Application of software			
		for statistical analysis of biomedical data.			
13	Biochemistry	Biological functions, structural organization of proteins. Enzymes.	3	CC1	LO1
		The role of membranes in metabolism, their diversity. Vitamins.		CC2	LO4
		Specific, general pathways of catabolism. Bioenergetics. Metabolism		CC8	LO7
		of carbohydrates, lipids, proteins. Biochemistry of hormones.			
		Biochemistry of the liver, kidneys. Hemprotein exchange.			
		Biochemistry of blood. Biochemistry of muscular, connective, bone,			
		dental, nervous tissues.			
14	Introduction to	The subject of hygiene, its goals, objectives. Sanitary and	5	CC2	LO1
	Environmental Hygiene	epidemiological monitoring of the state of air, soil, water. Nutrition is		CC4	LO3
		a factor of preserving and strengthening health. Hygienic assessment		CC7	LO4
		of the health and physical development of children and adolescents.		CC8	LO6

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		Immunoprophylaxis. Sanitary-anti-epidemic and sanitary-preventive measures.			
15	Introduction to Legislation and Health Economics	Basics of health economics. The concepts of economics in health care. Macroeconomics and microeconomics. Revenues in health care. Paid services: direct payment for the provision of medical care. Basics of health financing. Systems and forms of health care in the world. Budget financing in health care.	5	CC1 CC7 CC8	LO5 LO6
16	Introduction to Hospital Management	Fundamentals of labor process and human resource management in healthcare. Fundamentals of planning in healthcare. Fundamentals of management of a medical organization: leadership and power. Fundamentals of conflict management. Modern problems of hospital management development. Employee motivation. Fundamentals of professional ethics.	5	CC2 CC4 CC7 CC8	LO3 LO7 LO9
17	Genetics and Molecular biology	Fundamentals of Mendelian genetics. Patterns of inheritance traits. Sex-linked inheritance. Fundamentals of the chromosome theory of heredity. Macromolecules information the cell. Matrix synthesis of nucleic acids. Transcription. Protein biosynthesis. Gene expression's regulation. Violation of genetic homeostasis, manifestation in human pathology. Molecular genetic research methods. Substances' transport across membranes.	5	CC1 CC2 CC3 CC8	LO3 LO4 LO7
18	Environmental hygiene	Hygiene of atmospheric air, water, water supply, soil and their sanitary protection. Hygienic principles of regulation of chemicals in environmental objects. Assessment of the data of sanitary and laboratory control of environmental objects. Legislative documents and sanitary-epidemiological requirements for communal objects. Scheme of sanitary and epidemiological examination of communal objects.	10	CC2 CC4 CC7	LO4 LO6 LO7 LO8
19	Information technologies in healthcare	Basic concepts of information system (IS) in healthcare. Digital technologies in healthcare: accessibility and quality of medical care, as well as issues of disease prevention. Integrated Medical Information System (IMIS). Electronic medical card. Integrated Electronic Medical Record (IEMR). Unified State Health Information	5	CC3 CC5 CC7	LO3 LO9 LO10

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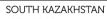
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		System.			
20	Microbiology	Morphology and physiology of bacteria. General virology. Genetics	5	CC1	LO1
		of bacteria and viruses. Antibiotics. Microbiological bases of		CC2	LO2
		disinfection, asepsis, antiseptics. Infection. Immunity.		CC4	LO4
		Immunobiological preparations. Private medical microbiology.			LO5
		Principles of microbiological diagnostics of the most important			
		bacterial and viral diseases. Medical parasitology. Microbiological			
		diagnosis of human parasitic diseases.			
21	Public health	Basic concepts and definitions used in public health. Public health	5	CC1	LO1
		development stages. Medical, social aspects of a healthy lifestyle.		CC2	LO2
		Demographics. Morbidity of the population, the main methods of		CC7	
		studying morbidity. Physical development, medical and social aspects			
		of the health of individual population groups.			
22	Environment and health 1	Subject the main risk factors of environmental pollution (water, air)	5	CC1	LO1
		for human health. Introduces the role of natural and anthropogenic		CC4	LO3
		factors in the formation of public health. Assessment and corrective		CC5	LO4
		measures in the field of public health and population protection.		CC7	
23	Environment and health 2	The subject, goals, and objectives of radiation hygiene. Research	5	CC3	LO3
		methods. Sources of ionizing radiation, their characteristics. Modern		CC4	LO4
		principles of rationing: Norms of Radiation Safety, SanNaR.		CC5	LO5
		Radiation safety of the population. The concept of radiation and		CC6	
		nuclear accidents. Modern problems of medical ecology.			
		Classification of environmental risk factors for public health.			
24	Basics of anatomy	The concept of anatomy, its place among the biological sciences.	5	CC1	LO1
		Anatomical nomenclature. Movement apparatus: structure, functions,		CC2	LO2
		blood supply, venous outflow, innervation, age-related features.		CC8	
		Nervous system and sense organs. General anatomy of cardiovascular			
		system. Anatomy of digestion. Characteristics of respiratory system.			
		Urogenital system. Anatomy of endocrine glands.			
25	Fundamentals of research.	Causes and sources of biomedetics. Basic principles, rules of	5	CC5	LO3
	Bioethics	biomedical ethics. Responsibility for inaction and wrong actions. The		CC8	LO5
		principle of respect for autonomy of individual. Taking medical			LO7



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26	Fundamentals of health promotion	measures for human development. Reproductive health. Reproductive choice. Human cloning. Medical and genetic counseling moral aspects. The Nuremberg Code and the Helsinki Declaration. Lifestyle: definition, categories. Quality of life, health and longevity. Fundamentals of healthy lifestyle promotion. Prevention of alimentary non-communicable diseases. Maternal and child health care. Prevention of infectious diseases. Physical activity and health.	5	CC2 CC4 CC7	LO5 LO6 LO7
27	Fundamentals of Health Management	Globalization of healthcare in the system of public health protection. Health and healthcare management practice in foreign countries. Healthcare management system of the RK. Unified management system of the company. Internal organization and management function. Management purpose and objectives. Management methods: classification, orientation, content. Management principles: concept, classification.	5	CC4 CC5	LO1 LO4 LO6 LO9
28	Fundamentals of physiology	The concept of the body and homeostasis. Physiological processes and functions of the body. Neurohumoral mechanisms of regulation of physiological functions. Physiology of body systems. Metabolism and energy. Food. Thermoregulation. Sensor systems. Higher nervous activity. Physiology of labor activity.	5	CC1 CC2 CC8	LO1 LO2
29	Fundamentals of epidemiology	Basic principles and concepts of Descriptive Epidemiology. The main tools of epidemiological analysis. Analytical epidemiology, basic research schemes and their application to public health. Protection of sanitary and epidemiological welfare and implementation of antiepidemic measures. Application of research and analysis results for policy development. Epidemiological surveillance, epidemiological diagnostics, epidemiological analysis.	5	CC1 CC4	LO1 LO2 LO5 LO6
30	Psychology of health	Definition of health psychology and research objectives. The idea of health psychology, means and methods of its preservation, strengthening, development. Methods of assessment, self-assessment of mental and social health; study of factors affecting attitudes to health; psychological mechanisms of healthy behavior; prevention of mental and psychosomatic diseases.	2	CC2 CC4 CC6	LO1 LO2 LO5 LO6

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31	Sociology of Health	Health sociology object and subject. Health as a medico-social, socio-	3	CC1	LO1	
		economic and socio-political category. The essence of sociological		CC3	LO2	
		approach to health analysis. Formation and development of		CC7	LO6	
		sociological study of health abroad and in the RK. Social differences		CC8	LO7	
		in population health status within countries. Lifestyle influence on				
		various social health groups.				
32	Pharmacology	General laws of pharmacokinetics and pharmacodynamics of	4	CC1	LO1	
		medicinal substances. Toxicokinetics and toxicodynamics of		CC2	LO5	
		medicinal substances. Antiseptics and disinfectants.		CC4	LO6	
		Chemotherapeutic agents. Toxic effects of medicinal raw materials		CC8	LO7	
		and drugs on the body of employees of medical organizations and				
		pharmaceutical enterprises. General laws of pharmacoeconomics and				
		pharmacoepidemiology.				
33	Chemistry	Chemical processes occurring in the human body. Types of	3	CC1	LO1	
		concentrations for determining the quantitative content of substances		CC4	LO2	
		in biological fluids and preparation of medical solutions. The basic		CC8		
		principles of qualitative and quantitative analysis used in the				
		diagnosis and treatment of certain diseases.				
Cycle of basic disciplines						
		Elective component				
34	Work practice as a medical	Acquaintance with organization of healthcare institution's statistical	2	CC2	LO1	
	statistician's assistant	work. Familiarization with the work on the compilation of periodic		CC7	LO3	
		statistical reporting and one-time reports of healthcare organizations		CC8	LO4	
		on the forms and in terms established by the authorized agency.				
		Carries out verification of the correctness of the received data, their				
		comparability on separate units with the data for previous periods.				
		Systematizes and processes digital data.				
35	Work practice as a	Epidemiological examination of the focus of an infectious disease.	5	CC4	LO3	
	specialist in epidemiology	Planning of anti-epidemic and preventive measures aimed at		CC5	LO4	
		localization (elimination) of the epidemic focus. Organization and		CC6	LO5	
		implementation of specific prevention. The procedure for			LO7	
		investigating post-vaccination complications (PVO). Organization				

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		and carrying out disinfection, sterilization, deratization.			
		Epidemiological diagnostics.			
		Cycle of profile disciplines			<u> </u>
		University component			
36	Occupational hygiene	Comprehensive assessment of the health status of employees. Preliminary, periodic medical examinations. Professional risk assessment. Certification of workplaces according to working conditions. Occupational medicine in industry, occupational hygiene of female and adolescent health workers. Sanitary standards, the main directions of hygiene and occupational safety of adolescents in modern conditions.	8	CC4 CC5 CC6	LO5 LO7 LO8 LO10
37	Healthy nutrition and food safety	Physiological and hygienic bases of rational balanced nutrition, hygienic requirements for their organization. Food quality assessment. Genetically modified foods. General hygienic requirements for food enterprises. Scheme of sanitary and epidemiological inspection of food enterprises. Control of the sanitary condition of food enterprises. Standardization of food products, its hygienic, legal significance.	8	CC4 CC5 CC7	LO4 LO5 LO7
38	Fundamentals of quality assurance	Accreditation in healthcare of the Republic of Kazakhstan. State legislative and regulatory framework of accreditation process. Accreditation standards for healthcare organizations providing outpatient care. Private medical institutions' accreditation. Rules for organizing and conducting internal and external examinations of medical services' quality. Quality control of medical services of medical care provision.	4	CC3 CC6	LO4 LO5 LO7
39	Health policy and legislation	Public health's modern theories, concepts. Modern healthcare, global trends in developed countries. Public health policy. International Statistical Classification of Diseases and Health-Related Problems. International, national healthcare structures, healthcare system's role and responsibility in addressing issues of providing social and medical care to the population. Reforms of healthcare legislation.	8	CC3 CC4 CC6 CC8	LO8 LO9
40	Advanced Epidemiology I	Patterns of occurrence and spread of diseases of various etiologies.	5	CC2	LO4

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		Measures to prevent diseases, measures aimed at breaking the		CC3	LO5
		epidemiological process. Control of preventive measures. Sanitary-		CC4	LO7
		preventive, anti-epidemic measures, including forms and methods of		CC7	
		disinfection, sterilization, disinsection, deratization. Regulatory and			
		legislative documents in the field of epidemiology.			
41	Advanced Epidemiology II	Epidemiological surveillance, preventive measures, epidemiological	5	CC4	LO5
		features of individual classification groups and current nosological		CC5	LO7
		forms of infectious and non-communicable diseases. Causes,		CC6	LO8
		conditions of occurrence, spread of non-communicable diseases. An		CC8	LO10
		algorithm for investigating the increase in cases of infectious and			
		non-communicable diseases. Regulatory and legislative documents in			
		the field of epidemiology.			
42	Health promotion and	Methods of studying, assessing the state of health, physical	5	CC2	LO4
	disease prevention I	development of the population. Hygiene of educational activities,		CC4	LO5
		physical education of children and adolescents, hardening. Hygiene		CC7	LO6
		of nutrition, labor education, training, vocational education. Hygienic			
		requirements for household items. Organization of prevention of			
		coronavirus infection among the population.			
43	Health promotion and	Hygienic principles of design, construction and requirements for	5	CC3	LO7
	disease prevention II	landscaping, equipment of institutions. Hygiene of extracurricular		CC5	LO8
		institutions. Hygienic issues of organizing summer wellness work in		CC6	LO9
		children"s and adolescent groups. Medical and sanitary-		CC7	LO10
		epidemiological support for children, adolescents, able-bodied and			
		elderly population. Sanitary and anti-epidemic regime of institutions.			
44	Writing and defence of a		12		
	thesis (project) or passing				
	a comprehensive				
	examination				
		Cycle of profile disciplines			
		Elective component			
45	Work practice as a	The role and legislation of the SSEC in the protection, promotion of	2	CC5	LO4
	specialist in state sanitary	public health. Current preventive sanitary supervision in field of		CC6	LO5

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	and epidemiological	hygiene. Accounting and reporting documentation. Promotion of a		CC7	LO8
	supervision	healthy lifestyle at inspected facilities. Application of various		CC8	LO9
		methods to solve practical problems in protection of sanitary			
		epidemiological welfare of population			
46	Work practice as a public	Organization of work in healthcare management. Tasks, structure,	2	CC5	LO8
	health specialist	methods and forms of work, job responsibilities of chief specialists,		CC6	LO9
		the nature and content of their work. Standards, basic accounting and		CC7	LO10
		reporting documentation. Conducting analysis of problems in field of		CC8	
		public health and public health. Using the acquired knowledge for			
		original development.			
		Cycle of profile disciplines			
		Elective component			
	T	Trajectory "Health Policy and Management"		ľ	.
47	Compulsary social medical	Types of medical insurance. International experience of compulsory	4	CC2	LO6
	insurance	social health insurance. Financing of the insurance system. List of		CC4	LO7
		medical services. Purchase of medical services. Salary of medical		CC6	
		workers in the conditions of MSHI. Drug provision. Socially			
		significant diseases. Prevention of diseases.			
48	HR-management in	Introduction to Human Resources Management. Personnel	4	CC3	LO4
	healthcare	management: goals, concepts and content. Types of management. HR		CC6	LO5
		management models. Management in science. Modern HR			LO8
		management technologies. Qualification characteristics,			
		responsibilities, requirements and competencies of an HR manager.			
		Development of HR management in Kazakhstan.			
		Cycle of profile disciplines			
		Elective component			
		Trajectory "Sanitary and epidemiological control"			1
49	Methods of sanitary and	Objects, types, methods and tasks of hygienic research. Hygienic	4	CC4	LO4
	hygienic research	laboratory, types, structure and functions. Equipment and instruments		CC5	LO5
		used in hygienic research. Sanitary and bacteriological studies of		CC6	LO8
		food products in practice. Methods of hygienic research of		CC8	LO9
		atmospheric air in populated areas. Methods of hygienic research of			

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		the soil of populated areas.			
50	State sanitary and	Role and legislation of the DSSEC in public health protection and	4	CC4	LO7
	epidemiological	promotion. Current and preventive control in the field of sanitary and		CC5	LO8
	supervision	epidemiological welfare of the population. The health information		CC6	LO10
		systems' accounting and reporting documentation. Various methods		CC7	
		of solving practical problems in protection of sanitary and			
		epidemiological welfare of population.			
		TOTAL:	240		

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Evaluation Critoria for EP 6R10105 'Public Health' Rachalar's degree (SOSE 2022)

Evaluation Criteria for EP 6B10105 'Public Health' Bachelor's degree (SOSE 2022).								
LO of EP	Unsatisfactory	Satisfactory	Good	Excellent				
1. Understands the basic definitions, models and concepts of health, diseases, the most important aspects of history, philosophy and socio-political knowledge, forming communication skills within a given topic with the development of knowledge of languages.	1) Does not know basic public health practices. 2) Does not know aspects of modern history and philosophy. 3) Does not articulate methods of applying modern information technology.	1) Can articulate some modern information technologies. 2) Can list some forms and mechanisms of intersectoral interaction. 3) Can name some proposals on protection and improvement of public health and organisation of medical and social assistance.	knowledge of the most important aspects of modern history, philosophy, and socio-political knowledge. 2) Demonstrates knowledge of public health assessment, applying knowledge of the indicators	promotion measures to preserve and improve the health of the population. 3) Interprets the development of modern forms and methods of work of health care organisations, control of the effectiveness of their activities. 4) Determines the				



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population. 2. Understands the methods 1) Does 1) Knows some criteria for 1) Defines 1) Defines basic not know the only of determining the indicators of health assessing factors affecting the epidemiological epidemiological parameters basic and or only epidemiological and sanitary-epidemiological health and sanitarydemographic parameters for for the implementation of well-being of the population. epidemiological well-being of implementation demographic parameters for of measures to protect public 2) Does not know how to implementation the population. measures to protect public health sanitaryand 2) Demonstrates knowledge measures to protect public work with data. sanitaryepidemiological well-being of health and health and sanitaryof health indicators. epidemiological well-being of the population. 2) Determines epidemiological welfare of the population. basic the population. 2) Determines methods of demographic parameters for analysing statistical data of implementation of population health assessment. measures to protect public sanitary-3) 3) Is able to interpret health and epidemiological well-being of graphs diagrams and the population. characterising the state of public health. 3) Applies statistical methods to assess the health of the population. 4) Can visually demonstrate the dynamics of public health status. 1) Partially knows the public 1) Knows about the types of 1) Knows the impact of 3. Identifies population health 1) Does not know about risk factors for calculating, public health risk factors. public health risk factors. public health risk factors. health risk factors. and analyzing 2) Does not know how to 2) Does not evaluate and 2) Can analyse quality 2) Orientates in legislative evaluating biomedical statistics using assess and analyse quality analyse quality indicators of indicators of various documents. indicators various environmental objects environmental objects. of 3) Easily evaluates information and various communication technologies environmental objects. well enough. 3) Draws conclusions and analyses quality indicators of 3) Does not draw conclusions 3) The formulation of various as part of informatization of gives incomplete environmental modern or make recommendations. conclusions objects. the healthcare recommendations. and 4) Summarises his/her own recommendations system. is not conclusions in the form of correct. recommendations without

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					T	
					difficulty.	
4. Ap	plies various methods	1) Does not know the	1) Can articulate some ways	1) Demonstrates knowledge	1) Defines the	directions of
	nethods of organizing	methods of organising	of organising the	of the basics of health care	public health refe	
	nanagement of health	management of institutions.	management of institutions.	management.	a new manageme	
	institutions in solving	2) Does not name ways of	2) Lists the functions of	2) Describes sanitary and	2) Interprets the	
_	cal problems for the	personnel management.	management.	epidemiological activities in	practical tasks	
_	tion of public health	3) Does not know	3) Lists models and methods	the Republic of Kazakhstan	protection of p	
	anitary-epidemiological	management styles and	of health facility	carried out by state bodies of	and sanitary-epi	_
welfar	e of the population.	methods.	management.	sanitary and epidemiological	well-being of the	
				service.	3) Relies on	
				3) Compares the combination	principles of based on the	•
				of sectoral and territorial	optimal soluti	
				planning for health care development.		deration of
				4) Describes the unity of	both internal pro	
				methodological approaches to	organisation and	
				planning at all levels of	social, economic	
				health care management.	situation.	and pointieur
				and the same of th	4) Analyses the	e method of
					forecasting publi	
					public health care	
5. Ap	pplies standards when	Not orientated in the content	1) Voices the need to use the	1) Orientates himself in the	1) Works	within the
	ting data to determine	of the Code of the Republic	articles of the Code of the	articles of the Code of the	framework of the	e Legislation
health	outcomes,	of Kazakhstan 'On	Republic of Kazakhstan 'On	Republic of Kazakhstan 'On		epublic of
_ ·	pating in ensuring	population Health and the	population Health and the	population Health and the	Kazakhstan in	
	ry and epidemiological	Health Care System'.	Health Care System'.	Health Care System'.	health care, regu	U 1
	eing and conducting	Does not know the	2) Can name some	2) Uses the articles of the	relations in th	
anti-ep	pidemic measures.	normative-legal acts of health	ŭ	Code in his/her practical	population health	•
		care of the Republic of	care.	activity.	2) Analyses the a	
		Kazakhstan.		3) Demonstrates knowledge	Code of the	-
				of SanRu and N.	Kazakhstan 'Or	* *
					Health and the	Health Care



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6. Carries out visual agitation	1) Does not know the	1) Demonstrates partial	1) Well oriented in the forms	System'. 3) Guided by the articles of the Code in his/her practical activities to ensure optimal medical care. Able to conduct visual
and promotion of a healthy lifestyle, effectively presenting information, interacting with the media, within the framework of the CSHI and medical legislation.	principles of forming a healthy lifestyle. 2) Not capable of informing the population about the work of the CSHI system. 3) Not able to explain the importance of immunoprophylaxis.	knowledge of algorithms of agitation and promotion of healthy lifestyle. 2) Does not fully know the issues of organising preventive measures within the framework of the CSHI system. 3) Cannot explain the effectiveness of immunoprophylaxis of the population.	of interaction with the population in promoting healthy lifestyle. 2) Orientates in legislative documents and principles of the CSHI system. 3) Explains the importance of immunoprophylaxis of the population in various infectious diseases.	agitation and promotion of a healthy lifestyle, effectively presenting information. 2) Clearly informs and explains the peculiarities of preventive measures within the framework of the CSHI system and medical legislation. 3) Independently assesses the effectiveness of immunoprophylaxis of the population.
7. Implements social work among the decreed segment of the population explaining issues of medical and hygienic education, lifestyle correction, medical and social aspects of major diseases, improving teamwork skills and observing moral and ethical standards.	 Does not know who belongs to the decreed stratum of the population. Does not name socioethical norms. 	 Knows the functions of social support for vulnerable people. Observes social and ethical norms. 	 Knows the preferential drug provision of the decreed population groups. Demonstrates knowledge of social work methods. 	 Participates in medical and sociological research to draw up a social portrait of the population. Recognises the role of the state in social support of vulnerable groups.
8. Conducts current and preventive surveillance, assessment and correction of	Does not possess knowledge in the field of current and preventive sanitary control.	1) Demonstrates partial knowledge of current and preventive sanitary control.	1) Well knows and explains the stages of current and preventive sanitary control.	1) Demonstrates knowledge and understanding of hygienic research methods

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activities in the field of public	2) Does not possess hygienic	2) Possesses hygienic	2) Applies hygienic research	and legislative documents in
health protection and sanitary	methods of carrying out	methods of sanitary-	methods in sanitary-	the field of sanitary-
and epidemiological welfare	sanitary-epidemiological	epidemiological control of	epidemiological control.	epidemiological control.
of the population, identifying	control of the environment.	the environment but is unable	/ 11	2) Demonstrates ability and
the main trends in changes in	3) Not able to evaluate the	to explain the results of	interprets legislative acts	skills in hygienic research
the socio-economic	results of laboratory-hygienic	laboratory tests.	when conducting sanitary and	methods and legislative
environment.	studies of current and	3) Knows the names of	epidemiological control.	documents in the field of
	preventive sanitary control in	legislative documents but		sanitary-epidemiological
	the field of sanitary-	cannot explain their scope of		control.
	epidemiological well-being of	application.		3) Evaluates the results
	the population.			obtained during current and
				preventive sanitary control
				and recommends sanitary and
				epidemiological measures in
				the field of sanitary and
				epidemiological well-being of
				the population.
9. Defines modern	1) Does not name evidence-	1) Lists models of decision	1) Identifies cause and effect	1) Formulates sequential
management and control	based solutions to improve	making.	relationships in an	actions aimed at achieving a
methods for human resource	performance and quality of	2) Identifies the choice of	organisation.	certain goal.
management and registration	work.	optimal decisions.	2) Applies comprehensive	2) Interprets methods to
of necessary accounting and	2) Does not know the	3) Outlines the basic legal	information necessary for	select the best alternative in
reporting documentation in	classification of MIS.	principles of information	decision making.	situations of high uncertainty
the healthcare information	3) Does not articulate the	systems.	3) Demonstrates knowledge	and risk.
system.	structure of the information	4) Names the main legal	of the unified national health	3) Conducts problem
	system.	documents.	information system of	discussions, interprets
	4) Does not know the		Kazakhstan.	objectives to improve results
	methods of analysing		4) Masters the development	and quality of work.
	accounting documents.		of the regulatory and legal	4) Identifies principles of
			framework.	information systems design.
				5) Interprets minimum

requirements

for health



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information system	ma in baalth

				information systems in health				
				care.				
				6) Interprets an automated				
				information system.				
10. Examines the impact of	1) Is unable to apply	1) Outlines some of the	1) Uses modern information	1) Uses modern remote and				
both the political and	scientific principles, methods	stages of habitat monitoring.	technologies and	contact research methods to				
economic situation on the	and knowledge in practice	2) Identifies methods of	mathematical methods of	assess the condition and				
health system and the sanitary	and research.	studying and assessing public	information processing.	quality of the environment.				
and epidemiological well-	2) Does not know the	health.	2) Is able to establish cause-	2) Analyses the principles of				
being of the population,	methods of health		and-effect relationships	health monitoring and				
analyzing and evaluating	assessment.		between actions and results.	assessment.				
scientific publications and	3) Does not articulate the		3) Describes the evaluation	3) Evaluates the application				
research.	definition of monitoring.		and analysis of the activities	of sanitation and hygiene				
			of health care institutions.	indicators in practice.				
				4) Interprets scientifically				
				based collection of primary				
				information on the state of				
				public health and activities of				
				health care institutions.				

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Appendix 3

The volume of loans disbursed by modules of the educational program

Course of study	Semester	Number of mastered modules	Number of studied disciplines		Number of credits KZ							Number		
			ВК	КВ	Theoretical training	Educational practice	Manufacturing practice	Undergraduate practice	Final certification	Total	Total hours	ECTS	Exam	Differentiated credit
1	1	5	6	1	30					30	900	30	6	1
1	2	4	7	-	30					30	900	30	6	1
2	3	5	7	-	30					30	900	30	6	1
2	4	6	10	-	28	2				30	900	30	8	2
3	5	4	5	-	30					30	900	30	5	-
	6	4	5	1	25		5			30	900	30	5	1
4	7	6	3	4	26			4		30	900	30	5	2
4	8	3	3	-	18				12	30	900	30	3	-
To	tal:	37	46	6	217	2	5	4	12	240	7200	240	44	8

The curriculum for the whole period of study, indicating the modules of the educational programme (In the application)