SOUTH KAZAKHSTAN
MEDICAL
ACADEMY
AO «Южно-Казахстанская медицинская академия»



Rector of SKMA

Restor of SKMA

M. Rysbekov

2022

EDUCATIONAL PROGRAM

Educational program code

6B10111

Name of the educational program

«Public health»

Level of the educational program:

Bachelor

Shymkent, 2022

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 № 11 a from « 08 » 08 2012y.

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

Protocol № 13 from «08» 08 2022 v.

Approved by the Academic Council

Protocol №15 from «08» 08 2022. Sailaubekyli R.

Magay L.N. CHAD

Timoshenko M.G

Sarsenbayeva G.

Anartayeva M.U. Sleggy

OŃTÚSTIK QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ Оңтүстік Қазақстан медицина академиясы» АҚ	
"Social Medical Insurance and Public Health" department	044-58/
Educational program	3 p. out of 26

Passport of the educational program 6B10111 «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

OŃTÚSTIK QAZAQSTAN	2965	SOUTH KAZAKHSTAN	
MEDISINA	SKMA	MEDICAL	
AKADEMIASY		ACADEMY	
«Оңтүстік Қазақстан медицина академиясы» АҚ		АО «Южно-Казахстанская медицинская академия»	
"Social Medical Insurance and Pu	lth" department	044-58/	
Educational pro	4 p. out of 26		

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:

- 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	6B10 Healthcare and social security (medicine)					
	education	obto freatmente 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	New EP					
		Training of competitive specialists in the field of public health who possess the					
7	Purpose of the EP	skills of critical thinking and analysis, comply with laws and moral and ethical					
/		norms, capable to assess and monitor public health, implement an innovative					
		approach to solving problems and tasks of intersectoral interaction, striving for					

OŃTÚSTIK QAZAQSTAN 201	SOUTH KAZAKHSTAN		
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«Оңтүстік Қазақстан медицина академиясы» АҚ	У АО «Южно-Казахстанская медицинская академия»		
"Social Medical Insurance and Public Health" department			
Educational program			

		personal and professional growth.		
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		
13	Learning outcomes	program with the 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	300		
17	Academic degree awarded	Bachelor		
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)		

Appendix 2.1

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

				8										
	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10	LO11	LO12	LO13	LO14
CC1	+	+		+	+									
CC2	+	+					+		+			+	+	
CC3		+				+							+	+

"Social Medical Insurance and Public Health" department	044-58/
Educational program	6 p. out of 26

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.

Learning outcomes:

LO 1	Applies the basic	concepts and	methods of public	health based on th	ne most important	aspects of modern	history,
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"Social Medical Insurance and Public Health" departm	nent 044-58/
Educational program	7 p. out of 26

	philosophy and socio-political knowledge for effective intersectoral interaction with the use of modern information
	technologies.
LO 2	Applies various methods and methods of organizing the management of health care institutions and personnel to set goals and solve practical tasks for the protection of public health and sanitary-epidemiological welfare of the population.
LO 3	Supports continuous personal and professional growth, studying during professional activity and is able to contribute to the creation and dissemination of knowledge and practical skills applicable to health.
LO 4	Applies critical thinking skills in analyzing and solving problems and making science-based decisions in the field of healthcare.
LO 5	Applies in practice the regulatory legal acts of the Republic of Kazakhstan in the field of health protection and ensuring epidemiological safety of the population.
LO 6	It works in electronic databases of the healthcare system of the Republic of Kazakhstan, ensures the maintenance of the necessary accounting and reporting documentation in healthcare organizations through electronic document management and archiving programs.
LO 7	Monitors, analyzes and evaluates data on the quality of the environment, the state of health, sanitary and epidemiological well-being of the population, the activities of health organizations and the satisfaction of the population with the medical services provided.
LO 8	Possesses the developing, organizing, conducting and effectiveness of sanitary-anti-epidemic and sanitary-preventive measures to protect public health and prevent diseases.
LO 9	Determines public health risk factors for calculating, evaluating and analyzing quality indicators of various environmental objects, summarizing its own conclusions in the form of recommendations.
LO 10	Capable to carry out an investigation of an epidemiological focus and prescribe anti-epidemic measures in the foci of infectious diseases with an assessment of the effectiveness of immunoprophylaxis of the population.
LO 11	Conducts current and preventive supervision, assessment and correction of activities in the field of public health protection and sanitary and epidemiological welfare of the population in infectious and parasitic diseases.
LO 12	Capable to organize sanitary and epidemiological control of the environment, border protection from the import and spread of particularly dangerous infections, determining the risks of import of infectious diseases from abroad, in order

OŃTÚSTIK QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	SOUTH KAZAKHSTAN SKMA -1979- ACADEMY AO «Южно-Казахстанская медицинская академия»	
"Social Medical Insurance and Public Health" department		3/
Educational program		t of 26

	to develop measures to ensure the sanitary and epidemiological well-being of the population, including in emergency situations.
LO 13	Observes social, moral and ethical norms, improving self-development skills and implementing social work and organization of medical and social assistance among the population.
LO 14	Applying scientific knowledge, he is able to conduct research in the field of public health protection.

Appendix 2.2

Information about the disciplines

Nº	Name of the discipline	Brief course description (30-50 words)	Num ber of credi ts	Form ed comp etenci es (codes)	Forme d Learni ng outcom es (codes)
		Cycle of general education disciplines			
		Compulsory component			
1	History of Kazakhstan	Ancient people and the formation of nomadic civilization. Formation	5	CC2	LO1
		of the Turkic statehood. Stages of		CC5	LO4
		ethno-cultural integration of the		CC8	LO14
		Turkic-speaking peoples, the formation of the Kazakh Khanate (XIII-			
		XV centuries). Kazakhstan in modern times. Kazakhstan in the Soviet			
		period. History of independent Kazakhstan.			
2	Philosophy	Philosophy as a science. Philosophy and worldview. The Philosophy	5	CC2	LO1
		role of in implementation of third modernization of Kazakhstan. The		CC4	LO3
		origin and essence of consciousness. Cognition as a philosophy		CC5	LO13
		problem. Education, science, technology, technology. Society and		CC6	
		culture. Religion and philosophical knowledge. Civilizational			
		identification of Kazakhstan in the global world. Continuous personal			
		and professional growth.			
3	Psychology and cultural	Psychology as science. Emotions and volitional processes. Suicidal	4	CC5	LO1
	studies	behavior youth. Individual-typological of personality. Values,		CC6	LO3
		interests, norms of personality. Interpersonal communication factor		CC8	LO4

OŃTÚSTIK QAZAQSTAN	SOUTH KAZAKHSTAN
MEDISINA	SKMA MEDICAL
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«Оңтүстік Қазақстан медицина академиясы» АҚ	АО «Южно-Казахстанская медицинская академия»
"Social Medical Insurance and Pub	lic Health" department 044-58/
Educational prog	ram 10 p. out of 26

	1				
		the development of Kazakhstani. Morphology and language of			
		culture. Semiotics and anatomy of culture. Cultural heritage of			
		nomads. Kazakh culture the context modern world processes			
		Cultural policy of Kazakhstan.			
4	Sociology and political	The individual and society. Sociological research. Family and	4	CC2	LO1
	science	modernity. Education and social inequality. Health and medicine.		CC4	LO2
		Politics and society. Elite and political leadership. The State and civil		CC5	LO3
		society. Political culture and behavior. Political conflicts and crises.		CC7	
		World politics and modern international relations.			
5	Foreign language	Phonetic norms and grammatical forms and constructions of modern	10	CC2	LO1
		English. Mastering the lexical and terminological minimum.		CC5	LO3
		Development of educational and professional speech: development of		CC8	LO4
		skills and abilities of reading, listening, taking notes of medical			
		literature; compilation of written texts on educational and			
		professional topics. Dissemination of knowledge and practical skills			
		applicable to health.			
6	Kazakh (Russian) language	Carries out correct choice, use of language and speech to solve	10	CC2	LO1
		certain problems of communication and cognition, grammatical		CC3	LO3
		knowledge system; uses information as a tool to influence the		CC4	LO4
		interlocutor in situations of cognition and communication;		CC6	
		participates in communication in various situations of different			
		spheres; makes texts in accordance with generally accepted norms.			
7	Information and	Role of ICT in the sectors of a developed society. Standards in the	5	CC1	LO1
	communication	field of ICT. Introduction to computer systems. Architecture of		CC2	LO6
	technologies	computer systems. Software. Human-computer interaction. Database		CC6	LO9
		systems. Data analysis, management. Networks, telecommunications.			
		Cybersecurity. Internet technologies. Cloud and mobile technologies.			
		Multimedia technologies. Smart technologies. IT in medicine.			
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"Social Medical Insurance and Pul	044-58/	
Educational program		11 p. out of 26

		Prospects for the development of ICT.			
8	Physical education	The basics of forming a healthy lifestyle. Physical activity and health. Medical and physical culture. Athletics. Short-distance running.	8	CC1 CC2	LO1 LO3
		Cross-training. Relaxation exercises. Relay races. Outdoor games. Gymnastic. National games. Adaptation to physical exercises at different age stages.		CC2	LO8
		Cycle of general education disciplines			
		Elective component			
9	Ecology and life safety	The purpose, objectives, methods of ecology research. The place of	5	CC1	LO1
		ecology in solving modern economic problems. Sources of pollution,		CC5	LO2
		their composition. The causal relationship of the general morbidity of		CC6	LO7
		the population with environmental factors, solutions aimed at		CC8	
		reducing the burden on the environment. Ensuring the safety of life.			
10	Basics of law and	The study of the totality of legal phenomena in the legal form and law	5	CC1	LO1
	economics	enforcement practice. anti-corruption culture. Competition in the		CC5	LO3
		medical services market. The structure of the national economy.		CC6	LO5
				CC8	
		Cycle of basic disciplines			
		University component			
11	Introduction to the specialty	The healthcare system of RK Organization of work and structure of	4	CC1	LO1
		sanitary and epidemiological supervision organizations, medical and		CC2	LO2
		preventive organizations. Regulatory legal acts in the activities of		CC5	LO5
		medical workers of RK. Ethics and deontology in healthcare. Basics			
		of communication with public. colleagues Anti-corruption culture.			

OŃTÚSTIK QAZAQSTAN	SOUTH KAZAKHSTAN	
MEDISINA	SKMA MEDICAL	
AKADEMIASY	ACADEMY	
«Оңтүстік Қазақстан медицина академиясы» АҚ		
"Social Medical Insurance and Pub	044-58/	
Educational prog	12 p. out of 26	

		II 14 11 14 D ' M 1 4 ' CIT 4			
		Health and healthcare Basics. Modern theories, concepts CIT the			
		understanding of public health.			
12	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.			
13	Basics of anatomy	Features of systems, organs, cells and subcellular structures of a	3	CC1	LO1
		healthy organism. The main patterns of tissue structure in different		CC2	LO4
		age periods; importance for medicine; terminology, basic techniques		CC8	LO9
		for working with drugs, textbooks and equipment; the essence of			
		research methods for various parts of a person.			
14	Basics of physiology	The functions of a healthy human body and the mechanisms of their	3	CC1	LO1
		regulation. Fundamental theoretical knowledge about the structural		CC2	LO4
		and functional organization of life processes at the cellular, tissue and		CC8	LO9
		organ levels, the disclosure of patterns of their development and, in			
		this regard, the possibility of purposeful influence on them.			
15	Molecular biology and	Informational macromolecules of the cell. Matrix synthesis of nucleic	3	CC1	LO1
	medical genetics	acids. Gene expression. Transcription. Protein biosynthesis.		CC2	LO9
	_	Modification of proteins. Regulation of gene expression. Patterns of		CC3	LO14
		inheritance of traits. Basics of the chromosomal theory of		CC8	
		heredity. Molecular genetic research methods. Violation of genetic			
		homeostasis and its manifestation in human pathology as a health risk			
		factor.			
16	Pharmacology	General laws of pharmacokinetics and pharmacodynamics of	5	CC1	LO1
		medicinal substances. Toxicokinetics and toxicodynamics of		CC2	LO8
		medicinal substances. Antiseptics and disinfectants.		CC4	LO9
		Chemotherapeutic agents. Toxic effects of medicinal raw materials		CC8	

OŃTÚSTIK QAZAQSTAN	2012 SOUTH KAZAKHSTAN
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«Оңтүстік Қазақстан медицина академиясы» АҚ	АО «Южно-Казахстанская медицинская академия»
"Social Medical Insurance and Public Health" department	
Educational program 13 p. out	

17	F	and drugs on the body of pharmaceutical workers, as a risk factor for health. General laws of pharmacoeconomics and pharmacoepidemiology.	5	001	1.07
17	Environment and health	Subject, purpose and objectives. The main risk factors of environmental pollution (water, air, soil) for human health. Natural	3	CC1 CC4	LO7 LO9
		and anthropogenic factors in the formation of public health. Public		CC5	LO12
		health as an integral indicator of environmental pollution. Factors		CC7	
		determining health. Types of environmental pollution effects on			
		health.			
18	First aid	The subject, tasks, scope and main tasks of first aid. Terminal	5	CC5	LO4
		conditions. First aid for wounds. Injuries, transport immobilization.		CC6	LO8
		Bleeding. First aid for burns. First aid for acute heart failure. First aid		CC8	
		for allergic reactions. Critical thinking.			
19	Biostatistics	Basics of biostatistics. Descriptive statistics. Basics of the theory of	5	CC1	LO1
		statistical hypothesis testing. Comparison of the average values of the		CC3	LO9
		attribute of two groups. A nonparametric alternative. One-factor		CC6	LO14
		analysis of variance. Correlation analysis. Regression analysis.		CC7	
		Analysis of qualitative features. Dynamic series analysis. Application			
		of software for statistical analysis of biomedical data.			
20	Statistics in healthcare	Theoretical foundations of medical statistics. Medical statistics, its	5	CC1	LO1
		importance in assessing population health and health authorities and		CC2	LO6
		institutions' activities. Statistical indicators of health. Comprehensive		CC3	LO9
		health assessment. Graphic images in medicine and healthcare: a			LO14
		visual representation of the results of a statistical study. Methods for			
		calculating averages: variational series, mode, median, arithmetic			
0.1	D : C :	mean.		007	1.00
21	Basics of research.	Types of research in the field of healthcare. Regulatory legal acts of	4	CC5	LO3
	Bioethics	research. Causes and sources of biomedetics. Basic principles and		CC8	LO5

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"Social Medical Insurance and Public Health" department	nt 044-58/	
Educational program		

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		rules of biomedical ethics. Ethics Committee. Responsibility for			LO13
		inaction and wrong actions. Reproductive choice and health. Moral			LO14
		aspects of medical and genetic counseling. The Nuremberg Code and			
		the Helsinki Declaration.			
22	General hygiene	The subject of general hygiene, content, purpose, tasks, methods. The	5	CC2	LO2
	7.5	Code of the Republic of Kazakhstan on the Health of the people and the		CC4	LO7
		health system. The impact of air pollution, soil and water quality on		CC7	LO8
		human health, its prevention. Nutrition and human health. Health		CC8	200
		protection of children and adolescents. Hygienic characteristics and			
		prevention of harmful effects of the main harmful factors of the			
		production environment on human health.			
23	Basics of Public Health	Basic concepts and definitions used in public health. Medical and	4	CC3	LO1
		social aspects of health and the basics of demography. Factors		CC5	LO3
		affecting the health of the population. Health problems of the decreed		CC6	LO13
		segments of the population. Physical development, medical and social			
		aspects of the health of individual population groups (women, children			
		and adolescents, the older generation). Distributes knowledge about the			
		preservation of health, observing social, moral and ethical standards.			
24	Medical biochemistry	Biological functions of proteins. Metabolism of proteins, fats and	3	CC1	LO1
		carbohydrates. Catabolism. Krebs cycle. Physiological and	Č	CC2	LO7
		biochemical norms of water metabolism, acid-base state of the body.		CC8	LO14
		Regulation of homeostasis. Role of membranes in metabolism.			LOTT
		Enzymes. Vitamins. Hormones. Biochemistry of blood, nervous,			
		muscular, connective tissue. Interpretation of the results of laboratory			
		and functional research methods.			
25	Microbiology, Virology and	Systematics and nomenclature of microorganisms. Morphology and	5	CC1	LO1
23	Parasitology	physiology of bacteria. General virology. Genetics of bacteria and	3	CC1	LO1 LO7
	T at astrology	viruses. Antibiotics. Microbiological bases of disinfection, asepsis,		CC4	LO7 LO8
		antiseptics. Infection. Immunity. Immunobiological preparations.			
		and separation. Infiniting. Infiniting of the parations.			LO12

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«Оңтүстік Қазақстан медицина академиясы» АҚ 💛 АО «Южно-Казахстанская медицинская академия»	
"Social Medical Insurance and Public Health" department	044-58/
Educational program	15 p. out of 26

		Sanitary microbiology of water, soil, air, and food products. Private medical microbiology. Principles of microbiological diagnosis of the most important bacterial and viral diseases. Medical parasitology. Biological foundations of the prevention of human parasitic diseases.			
26	Epidemiology	Basic principles and concepts of descriptive epidemiology. The main	5	CC1	LO2
		tools of epidemiological analysis. Analytical epidemiology, basic research schemes and their application to public health research. Protection of sanitary and epidemiological well-being		CC4	LO7 LO8
27	Basics of project management in the field of quality	Project definition. Its main characteristics and measurements. Elements of project activity. Classification of projects. Methodology and methodology of pre-project analysis. Project integration management. Mobilization of project resources. Project time and cost management. Project quality and risk management. Team management and project communications. Project monitoring. Change management and project completion. Research in public health.	5	CC5 CC6 CC7	LO2 LO3 LO14
28	Basics of evidence-based medicine	Introduction to Evidence-based Medicine (DM). Sources of DM. World development experience. Terminology and tools of evidence-based medicine. Types of epidemiological studies. Research in the field of healthcare. Electronic databases. The Cochrane Library. Search for information on the Internet using DM filters. Five stages of evidence-based medicine using critical thinking.	5	CC1 CC2 CC5 CC6	LO4 LO6 LO14
29	Radiation hygiene and medical ecology	The subject, goals, objectives of radiation hygiene and medical ecology. Research methods. Sources of ionizing radiation, their characteristics. Modern principles of rationing: Radiation Safety Standards. Radiation safety of the population. The concept of radiation and nuclear accidents. Modern problems of medical ecology. Classification of environmental risk factors for public health.	6	CC3 CC4 CC5 CC6	LO7 LO8 LO9

OŃTÚSTIK QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ ОҢТҮСТІК Қазақстан медицина академиясы» АҚ	
"Social Medical Insurance and Public Health" department	044-58/
Educational program	16 p. out of 26

30	Disease prevention and	Lifestyle: definition, categories. Quality of life, health and longevity.	5	CC2	LO2
	healthy lifestyle	The basics of promoting a healthy lifestyle. Prevention of alimentary		CC4	LO7
		non-communicable diseases. Maternal and child health protection.		CC7	LO13
		Physical activity and health.Prevention of infectious diseases.			
31	Infectious diseases	The doctrine of infection, classification. General principles.	5	CC1	LO10
		Laboratory diagnostics and prevention of intestinal, airborne,		CC2	LO11
		transmissible, anthropozoonotic, especially dangerous infections,		CC4	LO12
		STDs, food toxicoinfections, helminthiasis. Infections of the outer		CC8	
		integuments. Geographical distribution of the most important			
		diseases. Offices of infectious diseases of polyclinics in the			
		organization of dispensary registration of infectious patients.			
32	Quality management	Quality planning. Quality management. Quality assurance. Quality	5	CC3	LO2
		improvement. The Plan-Do-Check-Act cycle. Quality components.		CC4	LO5
		Quality management system. World experience in the development of		CC6	LO6
		quality management. Statistical methods of quality control and		CC7	
		process regulation. Basics of building quality systems. ISO 9000			
		series international standards. Documentation of the quality			
		management system. Electronic document management.			
33	Introduction to health	Basics of economics and healthcare financing. Concepts and	5	CC1	LO1
	legislation and economics	principles of economics. Systems and forms of healthcare financing		CC7	LO5
		in the countries of the world. Intersectoral interaction. Regulatory		CC8	LO6
		legal acts in the field of health economics. Macroeconomics and			
		microeconomics. Income in healthcare. Budget financing in			
		healthcare. Paid services: direct payments for medical care.			
		Accounting and reporting documentation.			
34	Health management	Globalization of healthcare - the existing realities in the system of	5	CC4	LO1
		public health protection. Practice of health and healthcare		CC5	LO2
		management in foreign countries. Healthcare management system of			LO5

OŃTÚSTIK QAZAQSTAN	SOUTH KAZAKHSTAN	
MEDISINA	SKMA MEDICAL	
AKADEMIASY	ACADEMY	
«Оңтүстік Қазақстан медицина академиясы» АҚ	АО «Южно-Казахстанская медицинская академия»	
"Social Medical Insurance and Publ	olic Health" department 044	1-58/
Educational prog	gram 17 p	p. out of 26

		RK. Unified management system of the company. Internal			
		organization and management function. The purpose and objectives			
		of management. Management methods: classification, orientation,			
		content. Management principles: concept, classification.			
35	Regulatory documents in	Regulatory and legal documents in sanitary and epidemiological	5	CC4	LO5
	sanitary and	welfare of the population. Types of regulatory documents: Sanitary		CC5	LO7
	epidemiological	rules, Hygienic standards, rules, Technical regulations, Uniform		CC6	LO8
	surveillance	sanitary-epidemiological and hygienic requirements for goods of the		CC8	
		Eurasian Economic Union. Current regulatory legal acts in the field			
		of occupational hygiene, hygiene of children and adolescents,			
		nutrition and communal hygiene.			
36	Public healthcare	Modern healthcare, global trends in developed countries. Public	5	CC1	LO4
		health policy. International Classification of Diseases and Health-		CC3	LO5
		related Problems. International and national health structures, the role		CC7	LO14
		and responsibility of the health system in addressing issues of		CC8	
		providing social and medical care to the population. Reforms of the			
		healthcare legislation. Regulatory and legislative acts in healthcare.			
		Scientific knowledge and research.			
37	State Sanitary-	The role and legislation of the SSES in the protection and promotion	5	CC4	LO7
	epidemiological	of public health. Current control of population' sanitary and		CC5	LO8
	Supervision	epidemiological welfare. Preventive supervision. Accounting and		CC6	LO10
		reporting documentation in the modern system of sanitary and		CC8	LO11
		epidemiological control. Applied forms and methods of solving			
		practical problems in the protection of sanitary and epidemiological			
		welfare of the population.			
38	Nutriciology	Physiological and hygienic bases of rational and balanced nutrition,	5	CC4	LO5
		hygienic requirements for their organization. Food quality		CC5	LO7
		assessment. Genetically modified foods. General hygienic		CC7	LO9

OŃTÚSTIK QAZAQSTAN	SOUTH KAZAKHSTAN	
MEDISINA	(SKMA) MEDICAL	
AKADEMIASY		
«Оңтүстік Қазақстан медицина академиясы» АҚ		
"Social Medical Insurance and Pub	olic Health" department	044-58/
Educational prog	gram	18 p. out of 26

39	Methods of sanitary and hygienic research	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 and legal significance. Objects, types, methods and tasks of hygienic research. Hygienic laboratory, types, structure and functions. Equipment and devices used in hygienic research. Sanitary and bacteriological studies of food products in practice. Methods of hygienic research of water and	5	CC4 CC5 CC6 CC7	LO11 LO7 LO8 LO11 LO14
		atmospheric air of populated areas. Methods of hygienic study of the soil of populated areas.		CCI	LO14
40	Educational practice as an assistant to a medical statistician	Familiarity with organization of medical institution's statistical work. Familiarization with work on compilation of periodic statistical reports, one-time reports of medical organizations according to the forms. Verifies the correctness of obtained data, their comparability for individual departments with data for previous periods. Systematizes and processes digital data.	2	CC2 CC7 CC8	LO1 LO6 LO9
41	Work practice as a specialist in epidemiology	Epidemiological examination of the focus of an infectious disease. Planning of anti-epidemic and preventive measures aimed at localization (elimination) of the epidemic focus. Organization and implementation of specific prevention. The procedure for investigating post-vaccination complications. Organization and carrying out disinfection, sterilization, deratization. Epidemiological diagnostics.	5	CC4 CC5 CC6	LO2 LO7 LO8
	Cycle of basic disciplines Elective component				
42	Sociology and psychology of health	Health as a medico-social, socio-economic and socio-political category. The idea of health psychology as the science of psychological causes of health, means and methods of its	4	CC1 CC3 CC7	LO1 LO7 LO13

OŃTÚSTIK QAZAQSTAN	SOUTH KAZAKHSTAN	
MEDISINA	SKMA MEDICAL	
AKADEMIASY	ACADEMY	
«Оңтүстік Қазақстан медицина академиясы» АҚ		
"Social Medical Insurance and Pub	olic Health" department	044-58/
Educational prog	gram	19 p. out of 26

		preservation, strengthening and development. The essence of the		CC8	
		sociological approach to health analysis. Methods of assessment and			
		self-assessment of mental and social health; psychological			
		mechanisms of healthy behavior.			
43	Social medicine	Formation of social medicine as a science. Basics of social medicine.	4	CC1	LO1
		Objects and subjects of social medicine. Socially significant diseases.		CC3	LO7
		Methods and forms of organization of medical and social assistance		CC7	LO13
		to the decreed segment of the population. Disability as a socio-legal		CC8	
		category. Temporary and permanent disability. Examination of			
		disability. Regulatory and legal requirements for the organization and			
		conduct of medical and social expertise.			
		Cycle of profile disciplines			
		University component			
44	Occupational medicine	Occupational medicine, the purpose and objectives of the discipline.	5	CC4	LO5
		Occupational safety and health. Features of labor regulation of certain		CC5	LO7
		categories of the population. Preliminary and periodic medical		CC7	LO9
		examinations of the working population. International cooperation in			LO11
		the field of occupational medicine. Regulatory and legislative			
		framework in the field of occupational medicine.			
45	Environmental hygiene	Hygiene of atmospheric air, water, water supply, soil. Hygienic	5	CC2	LO5
		principles of regulation of chemicals in environmental objects.		CC4	LO7
		Assessment of the data of sanitary and laboratory control of		CC7	LO11
		environmental objects. Modern problems of sanitary protection of			LO12
		atmospheric air, water reservoirs and soil settlements.			
46	Promoting the health of	Methods of studying, assessing the state of health, physical	5	CC2	LO5
	childrens and adolescents	development of the population. Hygiene of educational activities,		CC4	LO7
		physical education of children and adolescents, hardening. Hygiene		CC7	LO8
		of nutrition, labor education, training, vocational education. Hygienic			LO9

OŃTÚSTIK QAZAQSTAN	SOUTH KAZAKHSTAN	
MEDISINA	SKMA MEDICAL	
AKADEMIASY		
«Оңтүстік Қазақстан медицина академиясы» АҚ		
"Social Medical Insurance and Pub	blic Health" department 044-	-58/
Educational prog	gram 20 p	o. out of 26

		requirements for household items. Organization of prevention of			
		coronavirus infection among children.			
47	Military hygiene and	Actual problems of military hygiene. Basics of the organization of	5	CC4	LO5
	epidemiology	sanitary and hygienic measures during the field deployment of troops.		CC5	LO10
		Basics of organization, sanitary supervision conduct, medical control		CC6	LO11
		over the nutrition and water supply. Basics of the organization and		CC7	LO12
		conduct of sanitary supervision and medical control over the			
		conditions of military labor.			
48	Examination of the quality	The procedure for organizing the examination of medical care quality	5	CC4	LO5
	of medical care	in Kazakhstan. Organization of external and internal examination of		CC6	LO7
		medical services' quality. Stages of examination of the quality.		CC7	LO9
		Criteria for assessing the quality of medical care. Assessment of		CC8	
		correctness of choice of prevention, rehabilitation's methods.			
		Assessment of the degree of achievement of the planned result.			
49	Health policy and	Modern theories and concepts of public health. Modern healthcare,	5	CC3	LO5
	legislation	global trends in developed countries. Public health policy. International		CC4	LO7
		Classification of Diseases and Health-related Problems. International		CC6	LO8
		and national health structures, the role and responsibility of the health		CC8	LO9
		system in addressing issues of providing social and medical care to the			
		population. Reforms of healthcare legislation.		~~-	7.01
50	Advanced Epidemiology I	Analysis of the patterns of occurrence and spread of diseases of	6	CC2	LO4
		various etiologies. Measures to prevent diseases, measures aimed at		CC3	LO5
		breaking the epidemiological process. Sanitary-preventive, anti-		CC4	LO6
		epidemic measures, including forms and methods of epidemiological		CC7	
		investigations. Control of the effectiveness of the measures carried			
		out Regulatory and legislative documents in the field of			
		epidemiology.		~~.	
51	Advanced Epidemiology II	Epidemiological surveillance, preventive measures, epidemiological	5	CC4	LO7

OŃTÚSTIK QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ Оңтүстік Қазақстан медицина академиясы» АҚ Онтүстік Қазақстан медицина академиясы» АҚ	ицинская академия»	
"Social Medical Insurance and Public Health" department	044-58/	
Educational program 21 p		

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		features of individual classification groups and current nosological		CC5	LO11
		forms of infectious and non-communicable diseases. Causes,		CC6	LO12
		conditions of occurrence, spread of non-communicable diseases. An		CC8	
		algorithm for investigating the increase in cases of infectious and			
		non-communicable diseases.			
52	Global public health	The impact of human capital on country's sustainable development.	6	CC3	LO4
		Internal political stability and consolidation of society. Demographic		CC5	LO7
		policy in Kazakhstan and World. Reproduction of population.		CC7	LO14
		Demographic crisis and growth. Negative and positive migration			
		balances. Population structure. Social policy. Scientific knowledge			
		and research. Monitoring of the health status of the population.			
53	Information technologies in	Basic concepts of information system (IS) in healthcare. Digital	5	CC3	LO1
	healthcare	technologies in healthcare: accessibility and quality of medical care,		CC5	LO3
		as well as issues of disease prevention. Information technologies in		CC6	LO6
		scientific research of the healthcare system, medical education and			LO7
		biomedical research.			
54	HR management in	Introduction to Human Resources Management. Personnel	6	CC3	LO2
	healthcare	management: goals, concepts and content. Types of management. HR		CC6	LO3
		management models. Management in science. Modern HR			LO14
		management technologies. Qualification characteristics,			
		responsibilities, requirements and competencies of an HR manager.			
		Career growth. Development of HR management in Kazakhstan.			
55	Social and medical	Types of medical insurance. International experience of compulsory	5	CC2	LO5
	insurance	social health insurance. Financing of the insurance system. Package		CC4	LO7
		of medical services. Purchase of medical services. Remuneration of		CC6	LO8
		medical workers in the conditions of compulsory medical insurance.			
		Drug provision. Socially significant diseases. Prevention of diseases.			
56	Work practice as a	Organization of work in the Department of sanitary and	5	CC4	LO5

OŃTÚSTIK QAZAQSTAN 🚜 SOUTH KAZAKHSTAN		
MEDISINA (SKMA) MEDICAL		
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«Оңтүстік Қазақстан медицина академиясы» АҚ 💛 АО «Южно-Казахстанска	я медицинская академия»	
"Social Medical Insurance and Public Health" department	044-58/	
Educational program 22 p. out		

	specialist in hygiene	epidemiological control. Tasks, structure, forms and methods of		CC5	LO6	
	specialist in hygicile			CC6	LO12	
		work. Functional responsibilities of the chief specialists. Features of				
		the nature and content of the work performed by various management		CC8	LO14	
		departments. Standards, basic accounting and reporting				
		documentation. Analysis of problems in sanitary and epidemiological				
		welfare of the population.				
57	Work practice as a	Organization of work in healthcare management. Department of	4	CC5	LO3	
	specialist in public health	sanitary and epidemiological control work organization. Tasks,		CC6	LO4	
	and state sanitary and	structure, methods and forms of work, job responsibilities of chief		CC7	LO6	
	epidemiological supervision	specialists. Standards, basic accounting and reporting documentation.		CC8	LO7	
		Conducting an analysis of problems in public health, healthcare.			LO9	
		Current sanitary and epidemiological surveillance. Regulatory			LO11	
		documents, accounting and reporting documentation.			LO12	
		art and any art art are great and are			LO14	
58	Preparation and passing		4			
	of a comprehensive exam					
	Cycle of profile disciplines					
		Elective component				
		Cycle of profile disciplines				
		Elective component				
		Trajectory "Sanitary and epidemiological control"				
59	Food hygiene	Physiological and hygienic bases of rational and balanced nutrition,	5	CC2	LO5	
		hygienic requirements for their organization. Food quality		CC3	LO7	
		assessment. Genetically modified foods. General hygienic		CC4	LO8	
		requirements for food enterprises. Scheme of sanitary and		CC5	LO11	
		epidemiological inspection of food enterprises. Control of the sanitary				
		condition of food enterprises. Standardization of food products, its				
		hygienic and legal significance.				

«Онтус	OŃTÚSTIK QAZAQSTAN MEDISINA AKADEMIASY тік Қазақстан медицина академиясы» АҚ	000111101251111017111	
	"Social Medical Insurance and Public Heal	<u> </u>	044-58/
Educational program			23 p. out of 26

60	Occupational hygiene	Occupational and production-related diseases. Physiology of labor.	5	CC4	LO6		
	38	Professional risk assessment. Professional physical, chemical,		CC5	LO9		
		biological factors. Industrial poisons, the nature of their action.		CC6	LO10		
	Industrial microclimate, their impact on the health of workers.				LO11		
		Personal protective equipment. Certification of workplaces according					
		to working conditions. Comprehensive assessment of the health status					
		of employees.					
61	Hygiene of children and	Hygienic principles of design, construction and requirements for	5	CC3	LO7		
	adolescents	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	LO11		
		epidemiological support for children and adolescents. Sanitary and					
		anti-epidemic regime of institutions.					
62	Communal hygiene	The purpose, objectives and methods of research of communal	5	CC2	LO6		
		hygiene. Legislative documents in the field of communal hygiene.		CC4	LO7		
		Sanitary and epidemiological requirements for communal facilities.		CC7	LO10		
					LO11		
Scheme of sanitary and epidemiological examination of communal							
	facilities. Basic documentation of the Municipal Hygiene						
		Department.					
63	Disinfection case	The place of disinfection in the complex of preventive and anti-	4	CC2	LO8		
		epidemic measures. Types, methods and means of disinfection.		CC4	LO10		
		Organization and implementation of disinfection. Disinfection quality		CC7	LO11		
		control. Rules for storage, transportation of disinfectants, preparation			LO12		
		and storage of working solutions. Sterilization. Modern strategy of					
		medical disinsection and deratization in the conditions of settlements.					
		Cycle of profile disciplines					
	Elective component						

OŃTÚSTIK QAZAQSTAN	SOUTH KAZAKHSTAN
MEDISINA	SKMA MEDICAL
AKADEMIASY	- S/L ACADEMY
«Оңтүстік Қазақстан медицина академиясы» АҚ	АО «Южно-Казахстанская медицинская академия»
"Social Medical Insurance and Publ	ic Health" department 044-58/
Educational prog	ram 24 p. out of 26

	Trajectory "Health Policy and Management"				
64	Accreditation in the	Accreditation in healthcare of RK. Legislative and regulatory	5	CC2	LO5
	healthcare system	framework of the accreditation process in RK. Accreditation		CC3	LO6
		standards. Accreditation standards for healthcare organizations		CC4	LO7
		providing outpatient care. Accreditation of private medical			
		institutions. Rules for organizing and conducting internal and external			
		examinations of medical services quality. Quality control of medical			
		services for the provision of medical care.			
65	Identification and analysis	Criteria for assessing the degree of risk and checklists in the areas of	5	CC3	LO4
	of risks in the quality	quality of medical services, circulation of medicines and medical		CC6	LO5
	system of medical services	devices. Risk assessment criteria used for preventive monitoring with		CC7	LO7
		visits to subjects (objects) in the field of medical services (assistance).			LO9
		Principles of Deming quality management. SWOT analysis. PEST			
		analysis.			
66	Health system database	Basic concepts of the information system (IS) in healthcare. Digital	5	CC5	LO1
	management	technologies in healthcare. Classification of databases (DB). Stages		CC6	LO6
		of database creation. Information data processing system. Basic		CC7	LO7
		requirements for database management systems. Integrated Medical			
		Information System (IMIS). Electronic medical card. Integrated			
		Electronic Medical Record (IEMR). Unified State Health Information			
		System.			
67	Medical and social	Formation of professional knowledge about the factors of physical,	5	CC4	LO2
	protection of the population	mental, social health. The main methods of social protection and		CC6	LO8
		public health protection. Organization of preventive direction of		CC7	LO13
		medical and social work. Assessment of the directions of social		CC8	LO14
		protection in medicine. Organization of social work, medical and			
		social assistance to the population, observing social, moral and ethical			
		norms.			

OŃTÚSTIK QAZAQSTAN	south Kazakhstan	
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«Оңтүстік Қазақстан медицина академиясы» АҚ	АО «Южно-Казахстанская медицинская академия»	
"Social Medical Insurance and Pu	044-58/	
Educational program		

68	Organization of primary	Content of primary health care (PHC). The concept of the	4	CC2	LO3
	health care	organization of primary health care. Compliance with the principles		CC3	LO6
		of social honesty, parity and synergy. Organization of health schools,		CC4	LO8
		measures for the prevention and detection of diseases and conditions		CC8	LO13
		provided at the level of a person, family and society. Maintaining			
		primary medical documentation and reporting.			
		TOTAL:	300		

OŃTÚSTIK QAZAQSTAN	SOUTH KAZAKHSTAN		
MEDISINA	(SKMA) MEDICAL		
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«Оңтүстік Қазақстан медицина академиясы» АҚ	АО «Южно-Казахстанская медицинская академия»		
"Social Medical Insurance and Public Health" department			
Educational program			

Appendix 5

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						SX.		Number	
			nc	EC	Theoretical training	Educational practice	Manufacturing practice	Undergraduate practice	Final certification	Total	Total hours	ECTS	Exam	Differentiated credit
1	1	5	8	-	30					30	900	30	7	1
	2	4	6	1	30					30	900	30	6	1
2	3	6	7	-	30					30	900	30	6	1
	4	5	8	-	28	2				30	900	30	6	2
3	5	4	6	-	30					30	900	30	6	-
	6	5	4	1	25		5			30	900	30	5	1
4	7	3	5	-	25		5			30	900	30	5	1
	8	5	6	-	30					30	900	30	6	-
5	9	2	1	5	30					30	900	30	5	-
	10	5	4	-	22			4	4	30	900	30	5	2
Total:		44	55	7	280	2	10	4	4	300	9000	300	57	9

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