



EDUCATIONAL PROGRAM

Educational program code: 7M10141
Name of the educational program: Nursing
Level of the educational program: Magistracy (research and pedagogical direction)

Shymkent, 2025 y.



The educational program 7M10141 «Nursing» was developed by the members of the Academic Committee of educational programs at the master's and doctoral levels

Chairman of the AC OP for Masters and Doctoral levels

K.K. Orynassarova

Protocol № 8 25 03 2025y.

Agreed with the employer:

Chief Physician of the State public utility company on the right of economic management «City Polyclinic №7» of the Shymkent City Health Care Institution



Chief Physician of the State Public Utility on the Right of Economic Management «City Hospital №2» of the Health Care Institution of Shymkent



N.S. Zhanabaev

B.D. Pozilov

Chief Physician of the State public utility company on the right of economic management "Ambulance station" of the Shymkent city health department



G.M. Kurmanbekova

Approved by the Methodological Council

Vice-rector for academic work

M.U. Anartaeva

Protocol № 9 of 02 05 2025y.

Approved by the Academic Council

Protocol № 13 of 02 05 2025y.



Passport of the educational program

1. Mission of the educational program: To train highly qualified nursing specialists with research skills, professional competencies, who are able to successfully carry out pedagogical and research activities.

2. Purpose of the educational program: Training of a qualified nursing specialist with professional competencies.

3. Rationale for the educational program: Demand in the labor market: the educational program is focused on nursing specialists who are able to conduct scientific research and implement organizational and managerial technologies to solve complex problems of protecting public health and developing an effective healthcare system in Kazakhstan.

4. Professional standard on the basis of which the educational program has been developed:

Regulatory documents for the development of an educational program

- Order of the Minister of Science and Higher Education of the Republic of Kazakhstan «On Approval of State Compulsory Standards of Higher and Postgraduate Education» dated July 20, 2022 No. 2.

- Order of the Minister of Health of the Republic of Kazakhstan «On Approval of State Compulsory Standards for the Levels of Education in the Field of Healthcare» dated July 4, 2022 No. KR DSM-63.

- Order of the Minister of Education and Science of the Republic of Kazakhstan «On Approval of the Rules for the Organization of the Educational Process on Credit Technology of Training in Higher and (or) Postgraduate Education Organizations» dated April 20, 2011 No. 152.

- Law of the Republic of Kazakhstan «On Education» dated July 27, 2007 No. 319-III (as amended on 04.07.2022)

- Order of the Minister of Education and Science of the Republic of Kazakhstan «On Approval of the Model Rules for the Activities of Higher and Postgraduate Education Organizations» dated October 30, 2018 No. 595 (as amended on 29.12.2021)

- «Regulations on the Procedure and Procedures for the Development of Educational Programs» of JSC «SKMA» dated 29.04.2024.

- Internal regulatory documents of JSC «SKMA»

5. Field of professional activity: Health care organizers, heads of state and non-state medical and non-medical institutions
Scientific and research activities in universities.

6. Objects of professional activity: Organizations of health care management, organization of health care and social security, organization of higher and postgraduate education, organization of science.

Types of professional activity:

- organizational and managerial;
- scientific and research activities.

General information

№	Characteristics of the EP	Data
1	Registration Number	7M10100050
2	Code and classification of the field of education	7M10 Health care
3	Code and classification of the field of study	7M101 Health care
4	Group of Educational Programs	M141 Nursing
5	Code, name of the educational program	7M10141 Nursing
6	Type of EP	Current EP
7	ISCED level	7
8	NQF level	7
9	IQF Level	7
10	Distinctive features of the EP	No
	Partner University (JEP)	-
	Partner University (DDEP)	-
11	List of competencies	Key competencies of the graduate of the program: KC1 Confidentiality and respect for human rights and values in nursing care for patients, families and the community.

		<p>KC2 Development of organizational policies and guidelines in line with current developments in nursing and professional standards, leadership in quality improvement programs, mentoring colleagues in the quality improvement process.</p> <p>KC3 Continuously update the current knowledge and competency base to integrate knowledge, skills, and attitudes/behaviors into nursing and healthcare to develop innovations in nursing care. Continuous use of research for ongoing professional development.</p> <p>KC4 A role model for effective communication with different people/groups to support interpersonal relationships and improve nursing care.</p> <p>KC5 Leverage organizational and community resources to implement innovative solutions and professional care plans to improve quality. Collaborate with healthcare team members to bring innovative electronic information technology to nursing practice.</p> <p>KC6 Identify a wide range of innovation-based research best practices to improve nursing care.</p> <p>KC7 Evaluation of practice based on different theories of nursing care in specialized areas of nursing that contributes to the development of nursing science.</p> <p>KC8 Apply research skills to improve the teaching and management of patients/children/groups in professional practice. Applying research skills to improve health promotion.</p> <p>KC9 Provide advanced specialized nursing care, apply research findings, and initiate research to develop specialized nursing strategies, policies, and services appropriate to their role.</p>
12	Learning Outcomes	<p>LO1 He is able to apply the methods of personality-oriented learning (student-centered learning), the experience of pedagogical interaction with stakeholders, the development of teaching materials taking into account the integration of education, science, innovation and digital technologies.</p>

		<p>LO2 Uses innovative technologies in professional activities and principles of quality management to analyze and optimize the educational process.</p> <p>LO3 Uses modern information technologies, artificial intelligence, digitalization and principles of evidence-based medicine in scientific research.</p> <p>LO4 Summarizes the results and formulates conclusions and practical recommendations</p> <p>LO5 He designs his further professional development and develops a professional growth strategy taking into account modern requirements for teaching activities.</p> <p>LO6 Integrates knowledge, to make decisions in their professional activities</p> <p>LO7 Demonstrates knowledge and understanding, applies the principles of ethical regulation of research in the field of nursing practice</p>
13	Form of study	In-person
14	Language of instruction	Kazakh, Russian
15	Amount of loans	120
16	Degree Awarded	Master of Medical Sciences in 7M10141 «Nursing»
17	Duration of training	2 years
18	Availability of an appendix to the license for the direction of personnel training	KZ36LAA00011387 (018)
19	Availability of EP accreditation	Yes
	Name of accreditation body	Independent Agency for Accreditation and Rating (IAAR)
	Accreditation Certificate No., Accreditation Validity Period	№AB 4129, 09.06.2020y. – 08.06.2025y.
20	Information about disciplines	Annex 1.2



Annex 1

Matrix of correlation of learning outcomes in the educational program as a whole with the competencies being formed

	LO1	LO2	LO3	LO4	LO5	LO6	LO7
KC1	■		■	■			
KC2		■		■	■		■
KC3			■		■	■	■
KC4	■	■	■				
KC5	■			■		■	
KC6		■	■	■			
KC7					■	■	■
KC8		■	■		■		
KC9		■		■		■	

Annex 1.2

Matrix of achievability of competencies/learning outcomes

№	Name of the discipline	A brief description of the discipline	Cycle (BD, PD)	Component (UC, OC)	Number of credits	Generated LO (codes)
The cycle of basic disciplines					35	
Mandatory / University component					20	
1	History and philosophy of science	Philosophy and methodology of science as branch of philosophical knowledge. Structure of scientific knowledge. Scientific rationality. Features of the present stage of science development. Science as social institute. Natural sciences in structure of modern scientific knowledge. The history of formation of sciences about society, culture, history and person. Actual philosophical problems of specific sciences.	BD	UC	5	LO1 LO3
2	Foreign language (professional)	Extension and development of skills for practical usage proficiency language of specialty, for active application of a foreign language both in daily, and in professional communication: lexicon, grammar, possession of oral speech, written skills, audition, translation.	BD	UC	4	LO1 LO5



3	Pedagogics of the higher school	Formation of pedagogical competencies: teaching modern teaching methods and technologies and innovations in organizations of higher and postgraduate education, formation of professional ethics, skills to analyze and evaluate educational programs and teaching methods, conducting scientific research and writing scientific papers. Organization of the educational process based on a credit learning system. Education quality management system.	BD	UC	5	LO5
4	Psychology of management	The essence of administrative processes. Object of psychology management. Psychology of activity of the organization head and of his personality psychology. Functional and structural analysis of administrative activity. The psychological problems arising between the head and the staff of the organization. A clear idea of distribution on responsibility levels of the manager.	BD	UC	3	LO6 LO7
5	Teaching practice	Master's students are involved in conducting classes in the bachelor's degree in order to form practical skills, teaching and learning methods.	BD	UC	3	LO1
Optional Component					15	

6	Mental health in nursing	State social policy of the Republic of Kazakhstan. The concept of social and medical work in Kazakhstan. Legal and regulatory framework of social and medical work. Risk factors for health disorders. Provision of medical and social assistance to the family and its individual members. Social work in psychiatry, narcology, Oncology, geriatrics and other fields of medicine. Medical and social patronage. The importance of innovation in medical and social work.	BD	OC	5	LO5 LO7
7	Quality of life of incurable patients	Palliative care: multi-level approach. Psychological screening. Demoralization. Mental disorders in palliative patients. Spiritual support for the sick and their families. Psychological reactions to the loss of loved ones. Communication with terminally ill people and their families. Teamwork and self-reflection. Psychotherapy in palliative care.	BD	OC	5	LO4 LO7
8	Legal problems in nurse business	Professional and legal regulation of nursing practice. Accreditation. Certification. Licensing and registration. Certification. Crimes and torts. Intentional torts. Indicators. Consent based on receipt of information. Forms of information consent. Unintentional misdemeanors. Legal protection of nurses. Contracts. Professional insurance. Competent practice.	BD	OC	5	LO4 LO7



9	Theory and principles of pedagogy in nursing education	Tasks of nursing education. Principles of quality management for the analysis and optimization of the educational process. Methods of teaching and assessment based on student-centered learning. Methods of assessment of knowledge, skills, attitudes, competencies and practical implementation. Features of teaching disciplines in the nurse business. Principles of organization of postgraduate and continuous professional development of Nursing professionals. Features of adult education. Self- education.	BD	OC	5	LO1 LO2 LO3 LO5
10	Disease management	Quality of life. Methods of support of functional abilities. Prevention of chronic noncommunicable diseases. Self-management. Teaching the patient and his family to manage chronic diseases.	BD	OC	5	LO4 LO7
11	Project management in nursing	The modern concept of project management. Basic concepts and definitions. Processes of initialization, planning, monitoring and control, completion. Organization of project office, management of project portfolios, programs and multi-projects. Internet-technologies and software packages for project management. Computer is management of the projects.	BD	OC	5	LO3 LO4
12	Qualitative research in nursing	Philosophical foundations of qualitative approaches in nursing research. Data collection method. Methods of data analysis. Documentation of the qualitative research report. Reliability of qualitative research. Research ethics in qualitative research. The use of modern information	BD	OC	5	LO3 LO4

		technologies and artificial intelligence in scientific research.				
Cycle of profile disciplines					49	
University component					35	
13	Implementation of evidence-based nursing	Hierarchy of evidence (Evidence pyramid). Principles of clinical request formulation (PICO). Evaluation of the methodological quality of the study. Diagnostic and screening studies. Studies summarizing other studies. Introduction of evidence-based medicine and evidence-based nursing practice.	PD	UC	5	LO3 LO4
14	Methodology and methods of scientific research in the nursing	Fundamentals of national law in the field of scientific research. Fundamentals of international law in the field of scientific research. Descriptive and analytical studies. Systematic review. Metaanalysis. Information collection. Data processing using digital technologies and artificial intelligence. Data processing. General requirements and rules of registration of research work. Reviewing research papers, report on the work, preparation of abstracts. Preparation of scientific materials for publication.	PD	UC	5	LO6

15	Methodology of scientific research publications	Methodological foundations of scientific knowledge. Choosing the direction of scientific research. Search, accumulation and processing of scientific information. Work in databases: Republican interuniversity electronic library, Thomson Reuters, Springer Link, Science direct, Pub Med. Theoretical and experimental studies. Processing of experimental results.	PD	UC	5	LO6
16	Modern concepts and theories of nursing	The Emergence and development of theories of nursing. Analysis of nursing theories. The basic principles severnskogo in the case of theory V. Henderson. Theory samochodu D. Yelling. Theory interpersonal aspects of nursing care D. Travelbee. Version of the concept of «nursing» D. Carnevali. K. Martinsens theory of care. Care as care. Theory K. Eriksson. Theory of diabetes: prospects of development.	PD	UC	5	LO4 LO7
17	Current trends in nursing	Study of current health trends affecting the present and future of nursing, review of opportunities and challenges in the education and activities of nurses, presentation of some possible strategies to overcome current problems. Development of research and scientific activities in SD, innovation, leadership, communication skills, evidence-based nursing practice, nursing guidelines.	PD	UC	5	LO5
18	Information and communication technologies,	Modern aspects of informatization of medicine and nursing: information technology, classification of healthcare information systems; medical ARM and integrated MIS;	PD	UC	5	LO2 LO3

	artificial intelligence and digitalization in healthcare and nursing	definition, tasks, basic concepts of medical information resources; information and telecommunication technologies, artificial intelligence, digitalization and Internet resources for medicine and nursing; fundamentals of telemedicine, information security.				
19	The modern paradigm of nursing	Evolution of nursing knowledge. Scientific theories and models of nursing. Reforms in nursing. Background and implementation of the reforms of nursing in the Republic of Kazakhstan at the present stage. Model of development of nursing service and nursing education in Kazakhstan. Nurse doctor partner, patient assistant.	PD	UC	5	LO2 LO5
20	Research practice	Familiarization with the latest theoretical, methodological and technological achievements of domestic and foreign science, modern methods of scientific research, processing and interpretation of experimental data and their application.	PD	UC	6	LO3 LO7
Optional Component					8	
21	Rehabilitation of patients after stroke	Rehabilitation after stroke. Types of rehabilitation. The basic principles of a phased system of rehabilitation of patients after stroke. Comprehensive rehabilitation, rehabilitation programs after stroke. Organization of the process of rehabilitation of patients at the inpatient and outpatient stages.	PD	OC	4	LO4 LO6

22	Health promotion Nursing profession in the health care system of the Republic of Kazakhstan	Nursing in the health care system of the Republic of Kazakhstan. The subject, place and role of public health and prevention programmes. Organization and management in the work of nurses. Fundamentals of evidence-based nursing practice, integrating scientific data with clinical sister experience and patient values, critical thinking and decision making. Compulsory social health insurance.	PD	OC	4	LO4 LO7
23	Management and leadership in nurse business	Functions, principles and elements of the management process. Integration processes in management. Management systems: functions and organizational structures. Planning, SWOT analysis and forecasting in management. Management process. Management mechanism. Leadership and management style. Resources, quality and efficiency of management. Management information support system.	PD	OC	4	LO4 LO5
24	Emergency conditions: BLS, ACLS, PALS	Basic resuscitation – Basis Life Support, Advanced cardiopulmonary resuscitation – Advanced Cardiac Life Support. Advanced CPR in Pediatrics – Pediatric Advanced Life Support. Recommendations of the European Council for resuscitation 2010. Fundamentals of clinical diagnosis of terminal conditions. Primary and secondary assessment of the patient, the victim. Closed heart massage. Reception Of Safar. Methods of defibrillation of the heart. Intubation of the trachea.	PD	OC	4	LO2

25	New technologies of activity of nursing staff	The role of information technology in medicine. Modern technology and nursing. Modern technologies of nursing process. Standards of operating procedures for nursing professionals at different levels of education. Development of SOPs activities.	PD	OC	4	LO2 LO3
26	Quality management of delivery of health care	Quality management system. The main functions of quality management. Categories, types, methods of nursing care quality management. Factors affecting the quality of nursing care. Criteria for assessing the quality of nursing care. The main ways and directions of improving the quality of nursing care. Quality management of current processes at the level of nurses. Expert assessment of the quality of nurses' work.	PD	OC	4	LO2 LO3
27	Communication skills	Communicative competence of nursing specialists: key components, impact on the quality of medical services. Basic skills, strategy and technology patient-centered counseling (contact, manage interview, active listening, expression of empathy, commenting, communication and joint decision-making, the creation of a support plan, summing and feedback). Tools and strategies for effective interaction in the medical team.	PD	OC	4	LO1 LO6
Research work					24	
28	Master's research work, including internship and master's thesis	Planning research in nursing. Literature review. Research in nursing. Data collection and analysis. Methods of scientific research in nursing. Evaluation of the results of the study.			24	LO1 LO2 LO3 LO4 LO5 LO6 LO7



Final examination					12	
29	Design and defense of a master's thesis	Assessment of learning outcomes and key competencies achieved upon completion of the Master's degree program.			12	LO1 LO2 LO3 LO4 LO5 LO6 LO7
TOTAL					120	