



JSC Astana Medical University

Application for elective disciplines  
 Educational program: 6B10101 Nursing  
 Level of education Bachelor's degree  
 2022-2023 academic year  
 3-course - 10 credits (BD)



"APPROVED"  
 Vice-Chairman of the QAC of the  
 University  
 M. Muldakhmetov  
 "04" 02 2022 y.

| 1       | 2  | 3   | 4                | 5   | 6  | 7                      | 8  |                 |    |    | 9  | 10 | 11   |   |
|---------|--|---|------------------|---|--|------------------------|--|-----------------|----|----|----|----|--|---|
|         |  |   |                  |   |  |                        | the number of credits (hours)  | amount of hours |    |    |    |    |  | course (specialization / training trajectory) |
| Lecture | practice   | independent work of students  | with the teacher |   |  |                        |  |                 |    |    |    |    |  |   |
| 1       | Questions of biostatistics, information systems in nursing and the basics of X-ray laboratory training | Information systems in nursing  | BD               | The discipline "Issues of biostatistics, information systems in nursing and the basics of X-ray laboratory training" is one of the branches of knowledge related to the development and use of statistical methods in scientific research in medicine, healthcare and epidemiology. The purpose of the discipline is computerization of health system management, familiarization with documentation, electronic systems, the work of X-ray technicians, radiation safety measures when working with sources of ionizing radiation and other wave rays. | Information communication technologies   | Magistracy disciplines | Department of Biostatistics, Bioinformatics and Information Technology | 3 (90)          | 30 | 15 | 45 | 3  | Department of Biostatistics, Bioinformatics and Information Technology | Абдикалдыр Ж.Н.                               |
|         |  | Basics of training X-ray laboratory assistants (medical radiologists)                   |                  |   |  |                        |  |                 |    |    |    |    |  |   |
| 2       | Medical information systems of nursing   | Modern technologies and nursing   | BD               | The discipline "Medical information systems of nursing" studies the basic concepts of automated information processing, the possibilities of using information and telecommunication technologies, packages of applied programs in the field of professional activity, basic methods and techniques for ensuring information security. The purpose of the discipline is to use various types of software in professional activity, to use computer and telecommunication means.   | Information communication technologies   | Magistracy disciplines | Department of Biostatistics, Bioinformatics and Information Technology | 3 (90)          | 30 | 15 | 45 | 3  | Department of Biostatistics, Bioinformatics and Information Technology | Абдикалдыр Ж.Н.                               |
|         |  | Training of X-ray labrants (medical technologists) to work on modern diagnostic devices |                  |   |  |                        |  |                 |    |    |    |    |  |   |
| 3       | Clinical Microbiology in Nursing   | Clinical bacteriology and virology  | BD               | The main objectives of the module are to develop the knowledge, skills and abilities of nursing professionals in microbiological, virological and mycological research methods for widespread infectious diseases, HL and nosocomial infections, dysbiosis. Questions of biosafety and microbiology, problems of vaccination in the activities of nursing workers.  | Anatomy, physiology and pathology, Nursing in Internal Medicine, Nursing in Surgery, Nursing in Pediatrics, Nursing in Obstetrics and Gynecology | Master's disciplines   | Department of Microbiology and Virology named after Sh.I. Sarbasova    | 3 (90)          | 30 | 15 | 45 | 3  | Department of Microbiology and Virology named after Sh.I. Sarbasova    | Dusmagambetov M.U.                            |
|         |  | Clinical mycology and parazitology  |                  |   |  |                        |  |                 |    |    |    |    |  |   |
| 4       | Organization of medical nutrition in medical and preventive institutions                               | Basic principles of medical nutrition   | BD               | This module examines in depth the role of the dietary nurse in the organization of therapeutic nutrition of patients in medical institutions.   | Anatomy, physiology and pathology, Nursing in therapy, Nursing in chronic diseases, Nursing in primary health care.                              | Master's disciplines   | Department of Preventive Medicine and Nutrition                        | 3 (90)          | 30 | 15 | 45 | 3  | Department of Preventive Medicine and Nutrition                        | Dalenov E.D                                   |
|         |  | Organization of therapeutic nutrition in preventive medicine                            |                  |   |  |                        |  |                 |    |    |    |    |  |   |
| 5       | Nutritional features of young children   | Nutrition of young children   | BD               | This module covers the organization of nutrition for young children based on the basic knowledge of nutrition, which is necessary in nursing practice in the provision of patronage care for newborns.  | Anatomy, physiology and pathology, Nursing in therapy, Nursing in chronic diseases, Nursing in primary health care.                              | Master's disciplines   | Department of Preventive Medicine and Nutrition                        | 2 (60)          | 20 | 10 | 30 | 3  | Department of Preventive Medicine and Nutrition                        | Dalenov E.D                                   |
|         |  | Principles of medical nutrition in children   |                  |   |  |                        |  |                 |    |    |    |    |  |   |
| 6       | Organization of the nursing process for diseases of the adult and child population                     | Organization of the nursing process for diseases of the adult population                | BD               | The nursing process is a method of scientifically based and carried out in practice by a nurse of her duties to help patients. The work of a nurse helps to organize high-quality care for an adult patient and a child, his environment using the theories of nursing intervention. Some of these interventions are aimed at teaching and interacting not only with the patient, but also with his family, friends and environment.  | clinical assessment of the state of health and the basics of nursing, the nursing process in pediatrics  | Master's disciplines   | Department of Nursing  | 2 (60)          | 20 | 10 | 30 | 3  | Department of Nursing  | Saltabayeva U.Sh.                             |
|         |  | Organization of the nursing process in childhood diseases                               |                  |   |  |                        |  |                 |    |    |    |    |  |   |

|    |   |  |    |  |  |                             |  |         |            |   |  |                  |
|----|---|--|----|--|--|-----------------------------|--|---------|------------|---|--|------------------|
| 7  | Improvement of nursing at the present stage                           | Modern concepts of nursing care  | BD | A feature of the modern health of the population is the prevalence of diseases with high activity of the chronic course of the pathological process. Numerous socio-hygienic studies have shown that negative trends in the state of health are largely predetermined by an unsatisfactory lifestyle: bad habits, psychobehavioral stress, irrational nature of nutrition, spending free time and rest, low level of medical activity. | clinical assessment of the state of Health and fundamentals of nursing | Master's disciplines        | Department of Nursing                            | 2 (60)  | 20 10 30   | 3 | Department of Nursing                            | Saltbayeva U.Sh. |
|    |   | Nursing care and health-improving activities   |    |  |  |                             |  | 3 (90)  | 30 15 45   |   |  |                  |
| 8  | Basics of psychology in communication skills                          |  | BD | Formation of students' communication skills and skills of effective and conflict-free communication  | Psychology   | Master's degree courses     | Department of Basics of Medicine                 | 5 (150) | 50 25 75   | 3 | Department of Basics of Medicine                 | Kuanabbaeva G.S. |
| 9  | *Medical Ethics and Communication skills                              |  | BD | The program of the discipline "Medical Ethics and Communication skills" is aimed at studying the basic principles of effective communication with the patient. The subject of the discipline is the aspects of effective communication of a nurse with medical staff, relatives of the patient and hospital staff.   | Psychology   | master's degree courses     | Department of Basics of Medicine                 | 5 (150) | 50 25 75   | 3 | Department of Basics of Medicine                 | Kuanabbaeva G.S. |
| 10 | Sanitary and epidemiological requirements for the activity of a nurse | The role of a nurse in the prevention of nosocomial infections. Epidemic measures carried out by medical personnel in health care facilities | BD | The module studies violations of the sanitary and hygienic regime in medical institutions and the prevention of nosocomial infection in medical institutions, relatives of eliminating infection in medical institutions.  | nursing in primary health care   | palliative care             | Department of Public health epidemiology         | 2 (60)  | 6 14 10 30 | 3 | Department of Public health epidemiology         | Musina A.A.      |
| 11 | Requirements for organizations engaged in medical activities          | The role of nurses in infection prevention Organization of epidemic events in medical institutions   | BD | The module studies the sanitary and epidemiological regime in medical institutions and the organization of the prevention of infectious diseases; the activities of medical personnel in the elimination of infection in medical institutions  | nursing in primary health care   | palliative care             | Department of Public health epidemiology         | 3 (90)  | 9 21 15 45 | 3 | Department of Public health epidemiology         | Musina A.A.      |
| 12 | Epidemiology of Helminthoses.   | Etiology and epidemiological surveillance of soil helminthoses   | BD | The discipline forms knowledge of etiopathogenesis, morphological and epidemiological features, as well as skills related to nursing care to prevent the most important zoonotic helminthoses  | Nursing in primary health care   | palliative care             | Department of Public Health and Epidemiology     | 2 (60)  | 6 14 10 30 | 3 | Department of Public Health and Epidemiology     | Musina A.A.      |
|    |   | Etiology and epidemiological surveillance of bioterrorism  |    | The discipline forms knowledge of etiopathogenesis, morphological and epidemiological features, as well as skills related to nursing care to prevent the most important bioterrorism infection.  |  |                             |  | 3 (90)  | 9 21 15 45 |   |  |                  |
| 13 | Fundamentals of kinesotherapy in nursing practice                     |  | BD | The course provides the student with knowledge and understanding of the basics of the application of kinesotherapy, its principles and methods. The role of kinesiotherapists in the system of medical rehabilitation, the means of medical rehabilitation used in nursing practice will be considered   | Anatomy, physiology, pathology   | Master's degree disciplines | Department of rehabilitation and sports medicine | 3 (90)  | 30 15 45   | 3 | Department of rehabilitation and sports medicine | Slivkina N.V.    |
| 14 | Fundamentals of ergotherapy in nursing practice                       |  | BD | The course provides the student with knowledge and understanding of the basics of the application of occupational therapy, its principles and methods. The role of occupational therapists in the system of medical rehabilitation, the means of occupational therapy used in nursing practice will be considered  | Anatomy, physiology, pathology   | Master's degree disciplines | Department of rehabilitation and sports medicine | 2 (60)  | 20 10 30   | 3 | Department of rehabilitation and sports medicine | Slivkina N.V.    |

Approved at the meeting of the Committee on quality assurance of educational programs of the University

Protocol no. 44 from 25.04.2026.

Head of the Registrar's office

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Head of the Center for Academic Activities

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Head of the Center for Academic Activities

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