Medical Care and Manipulation Techniques (MCMT)
Thematic plan of practical classes for II course 3 semester 2026-2027

Lesson number	Topic, questions for the lesson
Lesson 1 (3 h) 07.09- 12.09.2026	**Topic 1.1 Medical ethics and deontology. Types of healthcare organizations** 1. Medical ethics and deontology in nurse practice. 2. Requirements for the appearance of a medical worker. 3. Deontological requirements for the personality of a nurse. Rules of behavior with patients, their relatives and colleagues. 4. Principles of medical ethics. Ethical and legal responsibility of medical workers. 5. Outpatient and inpatient healthcare organizations. The main structural units of the hospital, their functional purpose
Lesson 2 (3 h) 14.09- 19.09.2026	**Topic 1.2 Organization of work of hospital departments** 1. Organization of work and structure of the therapeutic department. 2. Organization of the work of the nurse's post. 3. Job responsibilities of the ward nurse. 4. The order of acceptance and delivery of duty of medical personnel. 5. Organization of the work of the admission department of the hospital. 6. Reception and registration of incoming patients. 7. Anthropometry. 8. Sanitization of patients. 9. Examination of patients for pediculosis. 10. Types of transportation of patients from the emergency department
Lesson 3 (3 h) 21.09- 26.09.2026	**Topic 1.3 Ensuring infectious safety in a hospital. Sterilization and disinfection** 1. Infection safety and control. 2. Personal protective equipment, rules for their use. 3. Hand hygiene according to EN-1500 standard. 4. Aseptic and antiseptic. 5. Prevention of nosocomial infections. 6. Rules for the treatment of medical waste. 7. Sterilization: purpose, methods. 8. Pre-sterilization preparation of instruments and dressings. 9. Methods for assessing the quality of sterilization. 10. Disinfection: purpose, methods. 11. Focal and preventive disinfection. 12. Rules for working with chemical disinfectants. 13. Treatment of patients in case of detection of pediculosis

Lesson 4 (3 h) 28.09- 03.10.2026	**Topic 1.4 Treatment room, principles of work organization. Issuance, storage, use and accounting of medicines** 1. Organization of the work of the treatment room, functional features of the nurse in the treatment room. 2. Equipment for the treatment room. 3. Documentation of the treatment room. Preparation of the treatment room for injections and internal infusions. 4. Ensuring the safety of the nurse in the treatment room at the workplace. 5. Rules for the treatment of medical waste. 6. Disinfection of reusable products. 7. Disinfection of a syringe with a disposable injection needle. Disinfection of the infusion disposable system. 8. Carrying out disinfection measures in the treatment room. 9. Prescribing, storage and accounting of medicines. 10. A selection of prescriptions from the medical record of an inpatient. 11. The order of storage of narcotic drugs and psychotropic substances. 12. The use of medicines. Routes of drug administration. 13. General rules for the use of medicines. Preparation and rules for the distribution of medicines of various forms. 14. Enteral administration of drugs, routes of administration, dosage forms. 15. Teaching the patient the technique of sublingual and transbuccal drug administration. 16. External methods of drug administration, advantages and disadvantages, dosage forms. 17. Instillation of drops in the eyes, nose, ears. 18. Putting ointment behind the eyelid from a tube. 19. The use of suppositories. 20. Application of medicines to the skin. 21. Inhalation method of drug administration. The use of an individual inhaler, spacer. Nebulizer use. 22. Possible complications in various ways of drug administration, first aid.
Lesson 5 (3 h) 05.10- 10.10.2026	**Topic 1.5 Parenteral route of drug administration.** 1. Methods of drug administration. 2. Parenteral ways of drug administration, possible complications. 3. Dosed administration of drugs using a syringe infusion pump. 4. Taking the drug from the ampoule into the syringe. 5. Taking the drug from the vial into the syringe. 6. Rules for the storage and use of vials and ampoules with the drug. 7. Indications, contraindications, complications and features of intradermal drug administration. 8. Equipment and technique for performing intradermal injection

Lesson 6 (3 h) 12.10- 17.10.2026	**Topic 1.6 Performing a subcutaneous injection. Performing an intramuscular injection** 1. Performing a subcutaneous injection. 2. Subcutaneous injection of insulin. 3. Subcutaneous injection of insulin using a syringe pen. 4. Performing an intramuscular injection. 5. Dilution of antibiotics. 6. Intramuscular injection of bicillin
Lesson 7 (3 h) 19.10- 24.10.2026	**Topic 1.7 Taking blood from a vein with a syringe and a vacuum system** 1. Taking blood from a vein with a syringe. 2. Taking blood from a vein with the S-Monovet vacuum system. 3. Taking blood from a vein with a vacuum Vacutainer system. 4. Preparation of blood for transportation to the laboratory, registration of medical documentation. 5. Measures in case of emergency contact with blood
Lesson 8 (3 h) 26.10- 31.10.2026	**Topic 1.8 Intravenous bolus administration of drugs** 1. Equipment for intravenous administration of a drug using a syringe. 2. Intravenous administration of the drug using a syringe. 3. Intravenous administration of the drug using a device for infusion into small veins "butterfly needle"
Lesson 9 (3 h) 02.11- 07.11.2026	**Topic 1.9 Methods of using the infusion system.** 1. Equipment for intravenous administration of a drug using an infusion system. 2. Filling the infusion system. 3. Intravenous administration of a drug using an infusion system. 4. Ensuring the required rate of drug administration. 5. Replacement of the vial with infusion solution. 6. Intravenous drug administration to the patient during the infusion period
Lesson 10 (3 h) 09.11- 14.11.2026	**Topic 1.10 Peripheral venous catheter technique** 1. Placement of a peripheral venous catheter. 2. Infusion therapy using peripheral venous catheter. 3. Caring of peripheral venous catheter. 4. Removal of the peripheral venous catheter
Lesson 11 (3 h) 16.11- 21.11.2026	**Topic 1.11 Performing injections and infusions in the ward of a hospital healthcare organization, at home and at the scene of an accident.** 1. Preparation for parenteral drug administration 2. outside the treatment room 3. Performing injections and infusions in the ward of a hospital healthcare organization. 4. Perform injection at home. 5. Performing injections and infusions at the scene of the incident

Lesson 12 (3 h) 23.11- 28.11.2026	**Theme 1.12** **OSCE for Injection**
Lesson 13 (3 ч) 30.11- 05.12.2026	**Topic 1.13 Care of patients with terminal conditions. Palliative care** 1. Terminal states. 2. Observation and medical care of patients in terminal conditions. 3. Cardio-pulmonary resuscitation. 4. Signs of clinical and biological death. Rules for the treatment of a corpse 5. Medical care and monitoring of elderly and senile patients. 6. Palliative care. 7. Medical care and monitoring of seriously ill and dying patients. 8. Methods of pain relief. Psychological support for patients and their families
Lesson 14 (3 h) 07.12- 12.12.2026	**Topic 1.14 OSCE Practical Skills Assessment (CPR)**
Lesson 15 (3 h) 14.12- 19.12.2026	**Topic 1.15 Questioning and examining the patient** 1. Rules for questioning the patient. 2. Assessment of the patient's consciousness. Determining the patient's position in bed. 3. Determination of body mass index (Quetelet index). 4. Assessment of the condition of the skin, the presence of edema. 5. Assessment of the state of visible mucous membranes. 6. Assessment of the general condition of the patient. 7. Vital signs of the patient's condition
Lesson 16 (3 h) 21.12- 26.12.2026	**Topic 1.16 Caring for a patient with limited self-care** 1. Medical care for a patient with a self-care deficit. 2. Determining the needs of the patient. 3. Nursing process. Movement and transportation of patients with self-care deficits. 4. Care of the skin and mucous membranes in a patient with self-care deficiency. 5. The concept of bedsores, places of their localization. Skin care for the prevention of bedsores
Lesson 17 (3 h) 28.12- 02.01.2027	**Topic 1.17 Preparing patients for medical procedures** 1. Preparation of patients for diagnostic and therapeutic procedures. 2. Preparation of the patient for laboratory tests (general blood test, biochemical blood test, blood test for glucose, general urinalysis, urinalysis according to Zimnitsky, urinalysis according to Nechiporenko, general sputum analysis). 3. Preparation of the patient for ultrasound examination of internal organs. 4. Preparation of the patient for endoscopic examination.

	5. Preparing the patient for pleural puncture. 6. Observation and medical care after diagnostic and therapeutic procedures
Lesson 18 (3 h) 04.01- 09.01.2027	**Topic 1.18 Care of patients with respiratory diseases** 1. The main complaints of patients with respiratory diseases. 2. Observation of the nature of breathing, coughing and sputum. 3. Rules for using an individual spittoon. 4. Giving the patient a drainage position. 5. Medical care for patients with chest pain, shortness of breath, suffocation, asphyxia, hemoptysis and pulmonary hemorrhage. 6. Rules for using the peakflowmeter. 7. Oxygen therapy for respiratory diseases. 8. Features of care for patients with respiratory diseases. 9. Laboratory and instrumental research methods for respiratory diseases
Lesson 19 (3 h)	**Topic 1.19 Patient care in the intensive care unit** 1. Organization of the work of the intensive care unit and intensive care. 2. Observation and medical care of patients in the intensive care unit. 3. Control over the patient's condition according to the data of the monitoring equipment. 4. Care of the skin and mucous membranes, feeding for patients in the intensive care unit and intensive care. 5. Physiological needs in patients of the intensive care unit and intensive care.

Начальник симуляционно-
аттестационного центра М.В.Радовня