

MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS
Educational Institution
BELARUSIAN STATE MEDICAL UNIVERSITY

Контрольный
экземпляр



APPROVED

by First Vice-Rector, Professor

I.N.Moroz

04.07.2022

Reg. # UD-L 690/2223 /edu.

MEDICAL CARE AND PRACTICAL SKILLS

**Curriculum of higher educational institution
in the academic discipline for the specialty:**

1-79 01 01 «General Medicine»

Curriculum is based on the educational program «Medical Care and Practical Skills», approved 01.07.2022, registration № УД-L.690/2223/уч.; on the educational plan in the specialty 1-79 01 01 «General Medicine», approved 18.05.2022, registration # L 79-1-1/2223/mf.

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RECOMMENDED FOR APPROVAL:

by the Department of Propaedeutics of Internal Diseases of the Educational Institution «Belarusian State Medical University»
(protocol # 11 of 24.05.2022);

by the Department of General Surgery of the Educational Institution «Belarusian State Medical University»
(protocol # 10 of 24.05.2022);

by the Simulation and Attestation Center of the Educational Institution «Belarusian State Medical University»
(protocol # 10 of 18.05.2022);

by the Scientific and Methodological Council of the Educational Institution
«Belarusian State Medical University»
(protocol # 6 of 29.06.2022)

EXPLANATORY NOTE

«Medical Care and Practical Skills» - the academic discipline containing systematic scientific knowledge about medical care, methods of performing nursing therapeutic and diagnostic procedures, sanitary-hygienic and sanitary-anti-epidemic measures.

The aim of the academic discipline «Medical Care and Practical Skills» is the formation of basic professional competence for medical care of patients, nursing manipulations, carrying out of sanitary-antiepidemic requirements in healthcare settings.

The objectives of the academic discipline «Medical Care and Practical Skills» are to form students' scientific knowledge about:

rules and methods for performing therapeutic and diagnostic nursing manipulations;

handling with medical waste, pre-sterilization cleaning and sterilization of medical devices;

skills and abilities required for:

medical care of patients in healthcare settings and at home;

performing nursing diagnostic and therapeutic procedures;

parenteral administration of medicines, blood sampling for biochemical and other studies.

The knowledge, skills and abilities acquired during the study of the academic discipline «Medical Care and Practical Skills» are necessary for the successful mastering of the following academic modules: «Therapy module # 1», «Surgical module # 1».

Studying the educational discipline «Medical Care and Practical Skills» should ensure the formation of students' basic professional competencies.

BPC. Provide medical care of patients, perform nursing medical and diagnostic manipulations, apply methods allowing to organize medical waste collection and sterilization of medical devices.

As a result of studying the discipline «Medical Care and Practical Skills» the student should:

know:

rules and methods of general and special medical care of patients;

contraindications to nursing medical manipulations, possible complications;

rules and methods of performing therapeutic and diagnostic nursing procedures;

rules and methods of parenteral administration of medicines, including the use of peripheral venous catheter;

rules and methods of blood sampling using syringe and vacuum systems for biochemical and other types of analyses;

rules of storage of medicines;

classification, rules for collection, packaging and labelling of medical waste;

the tools used to conduct pre-sterilization cleaning of medical-purpose reusable materials and instruments;

aims and methods of sterilization of reusable medical products, sterilization quality control;

be able to:

implement general and differentiated medical care of patients;

perform nursing therapeutic and diagnostic manipulation;

identify contraindications to nursing therapeutic manipulations, complications arising during their implementation;

administer medications parenterally using peripheral venous catheter;

administer medications using drains and micro-irrigation systems;

blood sampling using syringe and vacuum systems for biochemical and other types of analyses;

ensure proper storage conditions for medicines;

collect, package and label medical waste;

perform pre-sterilization cleaning of reusable medical products;

control the quality of pre-sterilization cleaning of reusable medical products;

pack dressings and other reusable medical devices for sterilization;

insert dressings and other reusable medical products for sterilization;

carry out quality control of sterilization of medical reusable products;

master:

nursing therapeutic and diagnostic procedures;

parenteral administration of drugs;

setting, handling and removal of peripheral venous catheter;

blood sampling for biochemical and other types of studies.

Total number of hours for the study of the discipline is 216 academic hours. Classroom hours according to the types of studies: lectures – 28 hours (including 9 hours of supervised student independent work), practical classes – 105 hours, student independent work (self-study) – 83 hours.

Intermediate assessment is carried out according to the syllabus of the specialty in the form of credit (3 semester) and examination (4 semester).

Form of higher education – full-time.

**ALLOCATION OF ACADEMIC TIME
ACCORDING TO SEMESTERS OF STUDY**

Code, name of the specialty	semester	Number of academic hours						Form of intermediate assessment
		total	in-class	including			out-of-class self-studies	
				lectures	supervised independent work	practical classes		
1-79 01 01 «General Medicine»	3	108	68	14	4,5	54	40	credit
	4	108	65	14	4,5	51	43	examination

THEMATIC PLAN

Section (topic) name	Number of class hours	
	lectures	practical
1. Nursing medical care	14	54
1.1. Medical ethics and deontology in nursing. Responsibilities of healthcare workers	2	3
1.2. Types of healthcare settings. Hospital structure. Nurse duties	-	3
1.3. Work organizing in the admission department of the hospital	-	3
1.4. Ensuring infection safety in a hospital. Fundamentals of asepsis and antisepsis	2	3
1.5. Sterilization and disinfection	-	3
1.6. Medical documentation	-	3
1.7. The use of medicines	-	3
1.8. Patient's interview and examination	2	3
1.9. Care of the skin and mucous membranes. Bedsore prevention and treatment	-	3
1.10. Principles of therapeutic nutrition	-	3
1.11. Nurse's role in patient's preparation for laboratory tests, diagnostic and treatment procedures	-	3
1.12. Monitoring and medical care of patients with respiratory diseases	2	3
1.13. Thermometry. Monitoring and medical care of patients with hypo- and hyperthermia	-	3
1.14. Monitoring and medical care of patients with cardiovascular diseases	2	3
1.15. Monitoring and medical care of patients with digestive system diseases	2	3
1.16. Monitoring and medical care of patients with urinary tract diseases	2	3
1.17. Monitoring and medical care of patients in the intensive care unit	-	3
1.18. Monitoring and medical care of patients with terminal illnesses. Palliative care	-	3
2. Practical Skills	14	51
2.1. Dressing room, principles of work organization	2	3

Section (topic) name	Number of class hours	
	lectures	practical
2.2. Operating block, principles of work organization	2	3
2.3. Preoperative patient preparation	2	3
2.4. Monitoring and medical care of patients in the postoperative period		3
2.5. Monitoring and medical care of patients with mechanical and thermal injuries	2	3
2.6. Monitoring and medical care of patients with plaster casts and skeletal traction		3
2.7. Features of monitoring and medical care of patients in the department of septic surgery	-	3
2.8. Procedure room, principles of work organization	2	3
2.9. Parenteral route of medicine administration. Withdrawal of solution from an ampoule and a vial into a syringe. Performing an intradermal injection	2	3
2.10. Performing a subcutaneous injection. Performing an intramuscular injection	-	3
2.11. Rules for venipuncture. Blood sampling from a vein. Intravenous medicine administration using a syringe	2	3
2.12. Insertion of a peripheral venous catheter	-	3
2.13. Filling the infusion system. Intravenous medicine administration using an infusion system	-	3
2.14. Use of a small vein infusion device «butterfly needle». Performing injections and infusions in the ward of a hospital organization, at home and at the place of an accident	-	3
2.15. Urinary catheterization	-	3
2.16. Insertion of orogastric tube. Insertion of nasogastric tube	-	3
2.17. Insertion of a rectal catheter. Cleansing enema. Siphon, drug and oil enemas	-	3
Total hours	28	105

CONTENT OF THE EDUCATIONAL MATERIAL

1. NURSING MEDICAL CARE

1.1. Medical ethics and deontology in nursing. Responsibilities of healthcare workers

Requirements for the healthcare worker's look. Deontological requirements for the nurse's personality. Rules of communication with patients, their relatives, colleagues. Principles of medical ethics. Ethical and legal responsibility of healthcare workers.

1.2. Types of healthcare settings. Hospital structure. Nurse duties

Types of healthcare, forms of and conditions for medical service. Outpatient and hospital healthcare settings. The functions of the hospital's structural units. Organization of the work in the Therapeutic department. Organization of the nurse's office. Duties of a nurse. The order of medical staff work shifts.

1.3. Work organizing in the admission department of the hospital

The order for referral of a patient to hospitalization. Admission department: structure, organization of work, medical documentation. Admission and registration of patients in the admission department. Anthropometry. Sanitary cleansing of patients (full, partial). Examination of patients for pediculosis and scabies. Pediculosis treatment.

Types of patient transportation: by feet, on a wheelchair, on a wheeled bed, on a stretcher, by hands.

1.4. Ensuring infection safety in a hospital. Fundamentals of asepsis and antisepsis

Infection safety and control. Aseptic and antiseptic. Personal protective equipment, rules for their use. Hygienic processing of hands according to the EN-1500 standard. Contemporary antiseptics for hand hygiene. Actions in case of emergency contact with the patient's biological material and contamination of environmental objects.

The concept of healthcare-associated infections. Infectious process: links of the infectious process, sources, transmission factors, ways of infection, pathogens. Prevention of healthcare-associated infections. The management of healthcare waste.

1.5. Sterilization and disinfection

Sterilization: concept, purpose. Sterilization methods. Pre-sterilization preparation of instruments and dressings. Quality control of pre-sterilization cleaning. Methods for assessing the quality of sterilization. Disinfection: concept, purpose. Types of disinfection. Focal and preventive disinfection. Methods for disinfection. Contemporary groups of chemical disinfectants. Rules for working with chemical disinfectants.

Disinfection of medical devices (medical instruments, dressings, patient care items), external surfaces.

1.6. Medical documentation

Types of medical documents, rules for recording in hospital medical documentation. Medical e-documents. Personal medical case record. Patient's

prescription list. Statistics card of the discharged patient. Basic documentation of the Therapeutic department. Rules for recording in medical documents.

1.7. The use of medicines

Prescription, storage and accounting of medicines. Selection of prescriptions from patient's medical card. The rules of narcotic medicines storage. Routes of medicine administration. General rules for medicine use. Rules of medicines preparation and distribution.

Enteral administration of medicines: routes of administration, dosage forms. The technique of sublingual and buccal administration of the medicine. External methods of medicine administration: advantages and disadvantages, dosage forms. Instillation of drops in the eyes, nose, ears. Applying the ointment to the eyelid. The use of suppositories. Applying medicines to the skin. Inhalation. The use of an individual inhaler, spacer. Nebulizer use. Training the patient to take medicine correctly. Possible complications with various methods of medicine administration.

1.8. Patient's interview and examination

Rules for patient survey. Assessment of the general condition of the patient. Vital signs. General examination of the patient. Assessment of the patient's consciousness. Determination of the position of the patient in bed. Body mass index (BMI) calculation. Assessment of the skin, the presence of edema. Assessment of mucous membranes.

1.9. Care of the skin and mucous membranes. Bedsore prevention and treatment

Bath and shower. Skin hygiene in case of self-care deficiency and active movement limitation. Oral and nasal care. Care for eyes, ears, hair, nails. The use of vessel and urinal. Genital hygiene. Change of clothes and bed linen.

Bedsore: causes, stages, localization. Skin care for bedsore prevention. Pressure reducing mattresses.

Rules of biomechanics. The main physiological positions of the patient in bed: Fowler's position, supine position, prone position, lateral position, Sims' position. Ways of moving the patient in bed. Comfort devices for patient's position.

1.10. Principles of the therapeutic nutrition

Basic principles of therapeutic nutrition. Organization of dietary nutrition in hospital. Nutrition regimen. Standard diets. Feeding patients with self-care deficit. Types of enteral nutrition. Insertion of a nasogastric tube. Parenteral nutrition.

1.11. Nurse's role in patient's preparation for laboratory tests, diagnostic and treatment procedures

Patient preparation for laboratory tests (complete blood count, biochemical blood analysis, glucose blood test, urinalysis, urine Zimnitsky test, urine Nechiporenko test, urine culture media, stool test (coprocytogram), stool test for parasites, microbiological stool test, sputum test). Rules for the medical documentation filling.

Patient preparation for instrumental tests (X-ray, computed tomography, magnetic resonance imaging, radioisotope examination, ultrasound examination of internal organs, endoscopic examination, pleural puncture). Monitoring and medical care after diagnostic and treatment procedures.

1.12. Monitoring and medical care of patients with respiratory diseases

Main complaints of patients with respiratory diseases. Monitoring of the breathing, coughing and sputum. Counting the respiratory rate. Rules for the use of an individual spittoon. Giving the patient a drainage position.

Medical care of patients in case of chest pain, shortness of breath, suffocation, asphyxia, hemoptysis and pulmonary hemorrhage. Rules for using a peak flowmeter. Pulse oximetry. Rules of oxygen therapy in case of respiratory diseases. Oxygen therapy methods.

1.13. Thermometry. Monitoring and medical care of patients with hypo- and hyperthermia

Body temperature. Types of thermometers. Rules of thermometry, assessment of the result. Graphical recording in the temperature list. Types of temperature curves. Disinfection and storage of thermometers.

Fever stages. Fever management according the fever stage. Heat stroke, sunstroke. Medical care of patients in case of hyperthermia. Physical methods of cooling and warming. Application of heating pad, ice pack. Hypothermia. Medical care of patients in case of hypothermia.

1.14. Monitoring and medical care of patients with cardiovascular diseases

Main complaints of patients with cardiovascular diseases. Monitoring of pulse, blood pressure, water balance. Pulse characteristics. Characteristics of blood pressure. Electrocardiogram recording.

Medical care of patients in case of edema, dyspnea, heart failure, pulmonary edema, hypertensive crisis, angina attack, myocardial infarction, acute vascular insufficiency. Nursing care features in case of cardiovascular diseases, therapeutic nutrition.

1.15. Monitoring and medical care of patients with digestive system diseases

Main complaints of patients with digestive system diseases. Monitoring of defecation rate and changes of stool characteristics.

Medical care of patients in case of abdominal pain, heartburn, vomiting, gastrointestinal bleeding, flatulence, constipation, diarrhea. Therapeutic nutrition in case of digestive system diseases.

1.16. Monitoring and medical care of patients with urinary tract diseases

Main complaints of patients with urinary tract diseases. Monitoring of urine output and urine characteristics.

Medical care of patients in acute urinary retention, urinary incontinence, renal colic, edema. Nursing care features, therapeutic nutrition, maintaining water balance in urinary diseases.

1.17. Monitoring and medical care of patients in the intensive care unit

Organization of work in the intensive care unit. Main equipment of the intensive care room. Infectious safety and control in the intensive care unit.

Monitoring and medical care of patients in the intensive care unit. Monitoring the patient's condition by monitoring equipment. Care of the skin and mucous membranes, feeding of patients in intensive care unit. Nursing care of patient's

urination and defecation in intensive care unit. Medical care of patient in case of substitution of vital functions.

1.18. Monitoring and medical care of patients with terminal illnesses. Palliative care

The concept of terminal illnesses. Signs of clinical and biological death. Cardiopulmonary resuscitation: rules, duration, reasons for stopping resuscitation. Death confirmation. Nursing care of the body after death.

Medical care and monitoring of elderly and senile patients. Monitoring and medical care of patients in a life-threatening condition. Principles of palliative care. Pain relief methods. Psychological support of patients and family members.

2. PRACTICAL SKILLS

2.1. Dressing room, principles of work organization

Medical documentation, equipment and preparation of the dressing room for dressing procedures. The purpose and methods of sterilization of reusable medical devices. Requirements for dressings and medical instruments. Preparation of dressing material. Packaging of dressing material and other reusable medical devices for sterilization. Putting of dressing material and other reusable medical devices for sterilization. Hygienic treatment of hands during medical procedures in the dressing room. Rules for the use of gloves in the dressing room. Collection, packaging and labeling of medical waste in the dressing room.

2.2. Operating block, principles of work organization

The main and auxiliary premises of the operating block. Operating block zones. Equipment, apparatus and equipment of the operating block. Sanitary and epidemiological regimen of the operating block. Types of cleaning of the operating block. Quality control of sterilization of reusable medical devices. Transporting patients to and from the operating room. Features of transporting a patient with drains, with systems for intravenous infusion; in the elevator and when carried on a stretcher. Methods of surgical hands hygiene before surgery. Putting on a sterile gown, gloves solely and with the nurse assistance.

2.3. Preoperative patient preparation

The concept of surgery, types of surgery and the main indications for surgery.

Stages of preoperative preparation of the patient. Features of preoperative preparation in conditions of emergency and planned operations. Psychological preparation of patients. Features of preoperative preparation of pregnant women and patients of elderly and senile age. Preparation of the operating field. The concept of premedication.

2.4. Monitoring and medical care of patients in the postoperative period

The concept of the postoperative period. Preparation of the ward, bed and care items for the patient after surgery. Monitoring of patients on the first postoperative day (dressing, skin, body temperature, cardiovascular system, respiratory system, urinary system). Features of postoperative management of pregnant women and patients of elderly and senile age. Organization of nutrition of patients after surgical interventions. Diet and regimen of parenteral nutrition.

Postoperative complications (early and late), it's their prevention. Assistance in case of vomiting. The use of a rectal catheter. Pain relief. Care of drainages of an abdominal cavity and a pleural cavity. Control, registration of the volume and nature of the discharge through the drains. The concept of stoma. Tracheostomy care. Care of gastro-, ileo-, colo- and cystostomy.

2.5. Monitoring and medical care of patients with mechanical and thermal injuries

Monitoring and medical care of patients with various types of wounds. The method and technique of dressing (removing the dressing, examining the wound, holding the toilet of the wound, applying and fixing a clean dressing). Drainage care. Removal of drains. Dressing change frequency.

Types of thermal injuries. Medical care of patients with thermal burns. Medical care of patients with chemical burns. Medical care of patients with electrical injury. Medical care of patients with cold injury. Features of the sanitary and hygienic regimen in the treatment of patients with thermal injuries.

2.6. Monitoring and medical care of patients with plaster casts and skeletal traction

Features of the position of patients with skeletal traction in bed. Advantages and disadvantages of plaster bandages. Preparation of plaster bandages and splint. Types and rules for applying plaster bandages. Complications due to incorrect application of plaster bandages. Features of hygienic care of the skin of the body and perineum in long-term patients. Rules for skin care in the places of Insertion of drill wires.

2.7. Features of monitoring and medical care of patients in the department of septic surgery

Requirements for the sanitary and hygienic regime in the departments of septic surgery. Measures aimed at preventing infections associated with the provision of medical care. The procedure for wet cleaning and ultraviolet bactericidal irradiation in the wards of the department of septic surgery. Medical care of patients with bedsores. The main types of drainage of septic cavities. Medical care in vacuum wound therapy, flow-aspiration drainage. The concept of acute septic nonspecific infection.

2.8. Procedure room, principles of work organization

Organization of the procedure room. Sanitary and epidemiological requirements for the organization of the work of the procedure room. Equipment of the procedure room. Safety measures for the nurse of the procedure room. Rules of medical waste of the procedure room management. Disinfection of a syringe with a disposable needle. Disinfection of disposable infusion system. Disinfection measures in the procedure room. Preparation of the procedure room for giving injections and intravenous infusions. Medical records of the procedure room.

2.9. Parenteral route of medicine administration. Withdrawal of solution from an ampoule and a vial into a syringe. Performing an intradermal injection

Routes of drug administration. Parenteral routes of drug administration: intradermal, subcutaneous, intramuscular injections, intravenous medicine administration using a syringe and infusion system. Dosed medicine administration

using a syringe infusion pump. Characteristics of medical devices for parenteral medicine administration. Possible complications in parenteral medicine administration, first aid.

Preparation of drugs for parenteral administration. Withdrawal of solution from an ampoule and a vial into a syringe. Rules of opened vial storage. Intradermal injection Performing technique.

2.10. Performing a subcutaneous injection. Performing an intramuscular injection

Subcutaneous injection technique. Subcutaneous injection of insulin. Subcutaneous injection of insulin using a syringe-pen. Technique of intramuscular injection. Rules for dilution of antibiotics. Features of intramuscular administration of emulsions, suspensions.

2.11. Rules for venipuncture. Blood sampling from a vein. Intravenous medicine administration using a syringe

A technique of venous blood sampling for laboratory testing. Characteristics of medical devices for venous blood sampling. Rules of venipuncture. Provision of safety and specifics of preparation of patient for blood sampling for laboratory tests.

Equipment for intravenous medicine administration using a syringe. Intravenous administration of a drug using a syringe. The technique of venous blood sampling with a syringe. The technique of venous blood sampling with a vacuum system. Preparation of blood for transportation to the laboratory, registration of medical documentation. Organization of blood transportation to the laboratory. Actions in case of emergency contact with blood.

2.12. Insertion of a peripheral venous catheter

Technique of peripheral venous catheter insertion. Preparation of heparinized saline solution. Care for peripheral venous catheter. Features of care for the central venous catheter.

2.13. Filling the infusion system. Intravenous medicine administration using an infusion system

Equipment for intravenous medicine administration using an infusion system. Technique of filling the infusion system. Intravenous drip administration of liquids using an infusion system. Calculation of the rate of medicine administration during infusion. Ensuring the required rate of medicine administration. Change of the bottle with infusion solution. Intravenous medicine administration using a syringe during the infusion. Infusion therapy using a peripheral venous catheter. Removal of a peripheral venous catheter.

2.14. Use of a small vein infusion device «butterfly needle». Performing injections and infusions in the ward of a hospital organization, at home and at the place of an accident

The technique of intravenous medicine administration using a small vein infusion device «butterfly needle».

Preparation for parenteral medicine administration outside the procedure room. Performing injections and infusions in the ward of a hospital organization. Performing injection at home. Performing injections and infusions at place of an accident.

2.15. Urinary catheterization

Preparation of the workplace for bladder catheterization. Bladder catheterization Technique: indications, contraindications, possible complications. Equipment for catheterization. Urinary catheterization using a Nelaton urological catheter. Urine withdrawal from the bladder. Urine sampling for laboratory testing using a catheter. The administration of the drug into the bladder. Urinary catheterization using a urological Folley catheter. The use of urinals of various types for urine collection. Care for a urological catheter and urinal, installed for a long time.

2.16. Insertion of orogastric tube. Insertion of nasogastric tube

Preparation of the workplace for **orogastric tube insertion**. Technique of **orogastric tube insertion**. Gastric lavage: indications, contraindications, possible complications. Equipment for gastric lavage. Technique of **nasogastric tube insertion**. Tube feeding of a patient: indications, contraindications, possible complications. Equipment for tube feeding of the patient.

2.17. Insertion of a rectal catheter. Cleansing enema. Siphon, drug and oil enemas

Preparation of the workplace for enemas. Indications, contraindications, possible complications for a rectal catheter and various types of enemas. Equipment for enemas. Technique of a rectal catheter placement. Technique for cleansing, siphon, oil, drug enemas.

ACADEMIC DISCIPLINE CURRICULAR CHART

Section, topic #	Section (topic) name	Number of hours			Self-studies	Form of control
		lectures	supervised student work	practical		
	3 semester					
1.	Nursing medical care	14	4,5	54	40	
1.1.	Medical ethics and deontology in nursing. Responsibilities of healthcare workers	2	0,5	3	3	Interviews. Tests. Solution of situational problems
1.2.	Types of healthcare settings. Hospital structure. Nurse duties			3	3	Interviews. Tests. Electronic tests. Solution of situational problems
1.3.	Work organizing in the admission department of the hospital	-	-	3	3	Interviews. Reports at practical classes. Tests. Electronic tests. Solution of situational problems
1.4.	Ensuring infection safety in a hospital. Fundamentals of asepsis and antiseptics	2	1	3	3	Interviews. Reports at practical classes. Tests. Electronic tests. Solution of situational problems
1.5.	Sterilization and disinfection			3	2	Interviews. Reports at practical classes. Tests. Electronic tests
1.6.	Medical documentation	-	-	3	2	Interviews. Reports at practical classes. Tests
1.7.	The use of medicines	-	-	3	2	Interviews. Reports at practical classes. Tests. Solution of situational problems

1.8.	Patient's interview and examination	2	1	3	2	Interviews. Reports at practical classes. Tests. Solution of situational problems
1.9.	Care of the skin and mucous membranes. Bedsore prevention and treatment	-	-	3	2	Interviews. Reports at practical classes. Tests. Electronic tests. Solution of situational problems
1.10.	Principles of therapeutic nutrition	-	-	3	2	Interviews. Reports at practical classes. Tests. Electronic tests. Solution of situational problems
1.11.	Nurse's role in patient's preparation for laboratory tests, diagnostic and treatment procedures	-	-	3	2	Interviews. Reports at practical classes. Tests. Electronic tests. Solution of situational problems
1.12.	Monitoring and medical care of patients with respiratory diseases	2	0,5	3	2	Interviews. Abstracts. Reports at practical classes. Tests. Electronic tests. Solution of situational problems
1.13.	Thermometry. Monitoring and medical care of patients with hypo- and hyperthermia	2	0,5	3	2	Interviews. Reports at practical classes. Tests. Electronic tests. Solution of situational problems
1.14.	Monitoring and medical care of patients with cardiovascular diseases	2	0,5	3	2	Interviews. Reports at practical classes. Tests. Electronic tests. Solution of situational problems
1.15.	Monitoring and medical care of patients with digestive system diseases	2	0,5	3	2	Interviews. Reports at practical classes. Tests. Electronic tests. Solution of situational problems
1.16.	Monitoring and medical care of patients with urinary tract diseases	2	0,5	3	2	Interviews. Reports at practical classes. Tests. Electronic tests. Evaluation using electronic-mechanical simulators and robotic simulators
1.17.	Monitoring and medical care of patients in the intensive care unit	-	-	3	2	Interviews. Reports at practical classes. Tests. Electronic tests. Solution of situational problems

1.18.	Monitoring and medical care of patients with terminal illnesses. Palliative care	-	-	3	2	Interviews. Tests. Evaluation using electronic-mechanical simulators and robotic simulators. Control interviews. Credit
4 semester						
2.	Practical skills	14	4,5	51	43	
2.1.	Dressing room, principles of work organization	2	0,5	3	3	Interviews. Tests
2.2.	Operating block, principles of work organization	2	0,5	3	3	Interviews. Tests. Control interview
2.3.	Preoperative patient preparation	2	1	3	3	Interviews. Reports at practical classes. Tests. Solution of situational problems
2.4.	Monitoring and medical care of patients in the postoperative period	2	1	3	3	Interviews. Reports at practical classes. Tests. Solution of situational problems
2.5.	Monitoring and medical care of patients with mechanical and thermal injuries	2	1	3	3	Interviews. Reports at practical classes. Tests. Solution of situational problems
2.6.	Monitoring and medical care of patients with plaster casts and skeletal traction	2	1	3	3	Interviews. Abstracts. Tests. Solution of situational problems
2.7.	Features of monitoring and medical care of patients in the department of septic surgery	-		3	3	Interviews. Abstracts. Tests. Solution of situational problems
2.8.	Procedure room, principles of work organization	2	0,5	3	3	Interviews. Tests. Control interview
2.9.	Parenteral route of medicine administration. Withdrawal of solution from an ampoule and a vial into a syringe. Performing an intradermal injection	2	0,5	3	3	Interviews. Tests. Evaluation using electronic-mechanical simulators and robotic simulators
2.10.	Performing a subcutaneous injection. Performing an intramuscular injection	-		3	2	Interviews. Tests. Evaluation using electronic-mechanical simulators and robotic simulators
2.11.	Rules for venipuncture. Blood sampling from a vein. Intravenous medicine administration using a syringe	2	0,5	3	2	Interviews. Tests. Evaluation using electronic-mechanical simulators and robotic simulators

2.12.	Insertion of a peripheral venous catheter	-		3	2	Interviews. Tests. Evaluation using electronic-mechanical simulators and robotic simulators
2.13.	Filling the infusion system. Intravenous medicine administration using an infusion system	-		3	2	Interviews. Tests. Evaluation using electronic-mechanical simulators and robotic simulators
2.14.	Use of a small vein infusion device «butterfly needle». Performing injections and infusions in the ward of a hospital organization, at home and at the place of an accident	-		3	2	Interviews. Tests Evaluation using electronic-mechanical simulators and robotic simulators
2.15.	Urinary catheterization	-		3	2	Interviews. Tests. Evaluation using electronic-mechanical simulators and robotic simulators
2.16.	Insertion of orogastric tube. Insertion of nasogastric tube	-		3	2	Interviews. Tests. Evaluation using electronic-mechanical simulators and robotic simulators
2.17.	Insertion of a rectal catheter. Cleansing enema. Siphon, drug and oil enemas	-		3	2	Interviews. Tests. Evaluation using electronic-mechanical simulators and robotic simulators. Examination
		28	9	105	83	

INFORMATION AND METHODOLOGICAL PART

LITERATURE

Basic (relevant):

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2. Lunn, Pamela. Taylor's clinical nursing skills: a nursing process approach. – 5th ed. – Philadelphia [etc.] : Wolters Kluwer, 2019. – 1095 p.
3. Kovalyova, O. M. Patient care (Practical Course) : textbook / O. M. Kovalyova, V. M. Lisovyi, S. I. Shevchenko. - 2nd ed., corrected. – Kyiv : AUS Medicine Publishing, 2018. – 320 p.

Additional:

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6. Шолкова, М. В. Наблюдение за пациентом. Уход за пациентами с дефицитом самообслуживания = Follow up of patients. Patient care for individuals with self-care deficiency / М. В. Шолкова, Э. А. Доценко, Т. П. Новикова. – Минск : БГМУ, 2018. – 20 с.
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8. Наблюдение и медицинский уход за пациентами с заболеваниями органов пищеварения = Nursing care of patients with digestive system diseases. / Т. Т. Копать [и др.] – БГМУ, 2021. – 32 с.
9. Наблюдение и медицинский уход за пациентами с заболеваниями мочеполовой системы = Nursing care of patients with urinary system diseases. / Г. М. Хващевская [и др.] – БГМУ, 2021. – 32 с.

METHODOLOGICAL RECOMMENDATIONS FOR THE ORGANIZATION AND PERFORMING OF INDEPENDENT WORK OF STUDENTS IN ACADEMIC DISCIPLINE

The time designated for independent work can be used by students for:

- preparation for lectures, practical classes;
- preparation for credit and examination in the academic discipline;
- working out of topics (questions) submitted for independent study;
- making exercise;
- performing research and creative tasks;
- preparation of thematic reports, abstracts, presentations;

implementation the practical tasks;
 taking notes of educational literature;
 complying a review of scientific literature on a given topic;
 designing the information and demonstration materials (stands, posters, diagrams, tables, newspapers, etc.);
 production of models, laboratory teaching guides;
 complying a thematic selection of literary sources, Internet sources;
 complying tests for the organization of mutual control.

METHODOLOGICAL RECOMMENDATIONS FOR THE ORGANIZATION AND PERFORMING OF INDEPENDENT WORK OF STUDENTS IN ACADEMIC DISCIPLINE

Main forms of supervised student independent work:

preparation and presentation of abstracts;
 presentation of reports;
 computer testing;
 participation in active forms of education.

Control of supervised student independent work is carried out in the forms of:
 test paper;

final lesson, colloquium in the form of an oral interview, written work, testing;
 discussion of abstracts;
 defense of educational assignments;

assessment of an oral reply to a question, presentation, report or problem solving;

checking up abstracts, written reports, accounts, prescriptions;
 individual interview.

LIST OF AVAILABLE DIAGNOSTIC TOOLS

The following forms are used for competences assessment:

Oral form:

interviews;
 reports at practical classes;
 solution of situational problems.

Written form:

tests;
 control interviews;
 abstracts.

Oral-written form:

credits;
 examinations.

Technical form:

electronic tests.

Simulation form:

evaluation using electronic-mechanical simulators and robotic simulators.

LIST OF AVAILABLE TEACHING METHODS

Traditional method (lecture, laboratory practicals);

Active (interactive) methods:

- training based on simulation technologies;
- Problem-Based Learning (PBL);
- Team-Based Learning (TBL);
- Case-Based Learning (CBL);
- Research-Based Learning (RBL).

LIST OF PRACTICAL SKILLS

1. Hygienic hand antisepsis.
2. Surgical hand antisepsis.
3. Donning a sterile gown and gloves.
4. Disinfection of reusable medical devices.
5. Preparation for sterilization of dressing material and medical instruments.
6. Pre-sterilization cleaning of reusable medical devices
7. Sterilization quality control.
8. Transportation of patients.
9. Anthropometry.
10. Examination of the patient for pediculosis.
11. Treatment of patients in case of detection of pediculosis.
12. Distribution of medications for oral administration.
13. Use of an individual inhaler.
14. Instillation of drops in the eyes, nose, ears.
15. Putting ointment on the eyelid from a tube.
16. Administration of suppositories.
17. Administration drugs on the skin.
18. Determination of the characteristics of the pulse on the radial artery.
19. Measurement of blood pressure.
20. Measurement of respiratory rate.
21. Thermometry and recording in the temperature sheet.
22. Thermometry and recording of temperature sheet.
23. Registration of the electrocardiogram.
24. Pulse oximetry.
25. Preparation of the workplace for injections and intravenous infusions.
26. Withdrawal of medicines from an ampoule into a syringe.
27. Withdrawal of medicines from a vial into a syringe.
28. Intramuscular injection.
29. Subcutaneous injection.
30. Blood sampling from a vein with a syringe.
31. Blood sampling from a vein with a vacuum system (vacutainer).

32. Filling of the infusion system.
33. Insertion of a peripheral venous catheter.
34. Intravenous medicine administration using a syringe.
35. Intravenous medicine administration using an infusion system.
36. Intravenous medicine administration using a syringe during the infusion.
37. Calculation of the rate of medicine administration during infusion.
38. Intravenous medicine administration using a device for infusion into small veins «butterfly needle».
39. Infusion therapy using a peripheral venous catheter.
40. Change of a bottle with an infusion solution.
41. Caring for a peripheral venous catheter.
42. Removal of a peripheral venous catheter.
43. Disinfection of a syringe with a disposable injection needle.
44. Disinfection of the disposable infusion system.
45. Carrying out disinfection measures in the procedure room.
46. Taking measures in case of emergency contact with blood.
47. Hygienic treatment of the mucous membranes of a patient with a lack of self-care (mouth, nose, eyes, ears).
48. Hygiene treatment of the skin of a patient with a lack of self-care in order to prevent pressure ulcers.
49. Urinary catheterization using a Nelaton urological catheter.
50. Urinary catheterization using a urological Foley catheter.
51. Urine sampling for laboratory testing using a catheter.
52. Care of permanent urological catheter and urinal.
53. Introduction of a nasogastric tube into the stomach.
54. Tube gastric lavage.
55. Tube feeding of the patient.
56. Cleansing enema.
57. Siphon enema.
58. Medicinal enema.
59. Preparation of the patient and biological material sampling for laboratory analysis (blood, urine, sputum, feces).
60. Preparation of the operation field.
61. Preparation of the ward, bed and care items for the patient after surgery.
62. Applying an ice pack.
63. Applying a heating pad.
64. Performing of dressing.
65. Feeding a patient through a gastrostomy.
66. Care of tracheostomy.
67. Care of gastrostomy care.
68. Care of ileostomy.
69. Care of colostomy.
70. Care of suprapubic epicystostomy.
71. Preparation of plaster bandages and splints.

LIST OF EQUIPMENT USED

1. Antiseptic for dispenser.
2. Antiseptics for the treatment of the hands of a healthcare worker and the site of venipuncture, the injection field of the patient 100 ml.
3. Bobrov Apparatus.
4. Apparatus for skeletal traction.
5. First aid kit.
6. First aid kit in case of emergency contact with the patient's biological material.
7. Rubber balloons № 1.
8. Rubber balloons № 3.
9. Drumes.
10. Elastic bandages 5 cm, 10 cm.
11. Non-sterile bandages sized 2 cm, 5 cm, 10 cm, 20 cm.
12. Bicillin-5 (imitation).
13. Pins.
14. Vaseline oil in a bottle.
15. Vacuum test tubes for the Vacutainer system.
16. Cotton-gauze rollers.
17. Procedure rollers for procedures.
18. Massage rollers of various sizes.
19. Inflatable bath.
20. Disposable hygienic mittens for the prevention of bedsores.
21. Cotton wool hygroscopic.
22. Buckets.
23. Funnels for gastric lavage.
24. Gypsum powder.
25. Comb.
26. Gel warmers.
27. Disposable towel holder.
28. Elbow dispenser for antiseptic.
29. Elbow dispenser for soap.
30. Silicone surgical drains for the abdominal cavity.
31. Silicone surgical drains for the pleural cavity.
32. Containers for liquids 50-100 ml.
33. Container for heating drugs (water bath).
34. Venous tourniquets (for venipuncture).
35. Sterile disposable plugs (for PVC).
36. Clips for the colostomy bag.
37. Gastric feeding tubes.
38. Nutritional nasogastric tubes.
39. Disposable sterile needles 0.8 mm * 40 mm in size.
40. Butterfly needles.
41. Individual inhaler (imitation).

42. Sterilization indicators.
43. Insulin solution (imitation).
44. Controlled syringe pump.
45. One-component drainable colostomy bags.
46. Drops in the nose, eyes, ears (imitation).
47. Wheelchair.
48. Suction catheters with vacuum control in the package.
49. Gastric catheters with labels (for lavage).
50. Nasal oxygen catheters.
51. Rectal catheters.
52. Female Nelaton urological catheters (size 16-18).
53. Male urological catheters Nelaton (size 16-18).
54. Urological Foley catheters (size 16-18).
55. Reusable oilcloths / waterproof disposable diapers.
56. Sets of disposable medical clothing (suits, caps, hats) for care the infectious patients.
57. Men's disposable patient sets (t-shirt, shorts).
58. Containers for collecting feces for research.
59. Containers for collecting urine 100 ml.
60. Containers for transporting samples of biological material.
61. Containers for sharp medical devices.
62. Medical containers for pre-sterilization treatment and disinfection of medical devices.
63. Corn tongs.
64. Kerchiefs 100 cm * 100 cm.
65. Craft paper for dressings.
66. Protective cream (imitation).
67. Wheelchair.
68. Hospital functional bed.
69. Circle anti-decubitus.
70. Esmarch's disposable mugs with an enema tip.
72. Pitchers.
73. Medical couch.
74. Adhesive plaster.
75. Medicine in an ampoule (imitation).
76. Drug for anesthesia (imitation).
77. Tape centimeter.
78. Reniform dishes.
79. Rectangular dishes 30 cm * 40 cm.
80. Lines for parenteral nutrition.
81. Line for supplying oxygen to the mask.
82. Eye ointment (imitation).
83. Mannequin for carrying out CPR «Mini-Ann».
84. Glass/plastic marker.

85. Breathing mask № 5.
86. Anti-decubitus mattress.
87. Medical records.
88. Ambu breathing bag.
89. Urine bags.
90. Multimedia projector/TV.
91. Hand soap.
92. A set of disposable tableware and cutlery.
93. Disposable set for covering the surgical field.
94. Pillowcase 70cm*70cm.
95. Overlay for practicing subcutaneous, intradermal injections.
96. Waterproof disposable sleeves.
97. Sodium chloride 100 mg/ml (imitation)
98. Nebulizer.
99. Ampoule knives.
100. Scissors for removing gypsum bandages.
101. Manicure scissors.
102. Scissors.
103. Blunt scissors.
104. Stretcher.
105. Laptop.
106. Optidez-system / disposable wipes / rags.
107. Gauze cut.
108. Electric aspirator for sanitation of the upper respiratory tract.
109. Medical protective glasses.
110. Bags for collecting medical waste.
111. Sterilization packages for medical products.
112. Sterilization packages for dressings.
113. Protective paste for skin (imitation).
114. Diapers.
115. Disposable diapers.
116. Blue wraps for sterile instruments.
117. Disposable waterproof/reusable rubberized aprons.
118. Peripheral venous catheters (16-18G).
119. Non-sterile medical gloves.
120. Sterile medical gloves of different sizes.
121. Peak flowmeter.
122. Anatomical tweezers.
123. Surgical tweezers.
124. Eye pipettes (blunt).
125. Tablets of a nurse for distribution of medicines.
126. Film transparent dense.
127. Self-adhesive bandage for catheters.
128. Pillow 60 cm * 60 cm.

129. 10 ml tubes with a stopper.
130. Test tubes for the Vacutainer system.
131. Sheets 100 cm * 170 cm.
132. Pulse oximeter.
133. Vertical stadiometer.
134. Surgical shirts.
135. Wipes under the tourniquet disposable.
136. Cotton napkins for test tubes.
137. Sterile gauze wipes in individual packaging.
138. Safe deposit for storage of drugs of group A.
139. Vacutainer systems.
140. Single use infusion systems.
141. Simulator for practicing bladder catheterization skills (male and female)
142. Women's disposable shirt.
143. Spacer.
144. Camphor alcohol 10% (imitation).
145. Ethyl alcohol (imitation).
146. Drill wires for skeletal traction apparatus.
147. Orthopedic drill wires.
148. Tools for carrying out disinfection measures.
149. Glass.
150. Measured glass.
151. Drinking glass.
152. Table/stand for drums.
153. Medical plaster table.
154. Nursing table.
155. Surgical instrumental tables.
156. Manipulation tables.
157. Medical tables for carrying out disinfection procedures.
158. Cutlery (curved) for patients with self-service deficits.
159. Urinal «Bout».
160. Urinals for men («Duck»).
161. Rectal suppositories (imitation).
162. Bowl.
163. Gauze swabs.
164. Tegoderm dressing for central venous catheter.
165. Trolley for collecting CO and linen.
166. Thermal container.
167. Water thermometers.
168. Electronic thermometers.
169. Mechanical tonometers.
170. Tracheostomy tubes.
171. Simulator for practicing skills of intramuscular injections.
172. Intubation tubes.

173. Bedside table.
174. Washbasin for carrying out disinfection procedures.
175. Washbasin with elbow operated tap.
176. Box with a lid for collecting communal waste in medical organisations.
177. Phantom head with esophagus and stomach.
178. Hand phantom for intravenous injections.
179. Phantom of the pelvis for enemas administration.
180. Bacterial respiratory filters.
181. Vials with water for injection / sodium chloride 9 mg / ml 100 ml.
182. Vials with water for injection / sodium chloride 9 mg/ ml 200 ml / 250 ml.
183. Penicillin vials with a rubber stopper.
184. Penicillin vials with a rubber stopper and an aluminum cap (sealed).
185. Phonendoscope.
186. Furacillin solution (imitation).
187. Surgical gowns.
188. Chemical agents of emergency disinfection.
189. Cold packs / ice bags.
190. Chlorhexidine bigluconate 0.5 mg/ml in vial (imitation).
191. Refrigerator for medicines storage.
192. Towel clips.
193. Central venous catheters.
194. Cotton balls in individual packaging.
195. Screen.
196. Medical cupboard.
197. Medical spatulas in individual packaging.
198. Janet syringes, disposable 50 ml, 100 ml, 200 ml.
199. Insulin syringes with integrated needle 1.0 ml.
200. Three-component insulin syringes 1.0 ml.
201. Three-component tuberculin syringes 1.0 ml.
202. Sterile syringes in individual packaging 20.0 ml, 10.0 ml, 5.0 ml, 2.0 ml.
203. Clamp stands for infusions.
204. Test tube racks.
205. Medical protective screens.
206. Electrocardiograph.

LIST OF LECTURES

3 semester:

1. Medical ethics and deontology in nursing. Responsibilities of healthcare workers. Types of healthcare settings. Hospital structure. Nurse duties.
2. Ensuring infectious safety in a hospital. Fundamentals of asepsis and antisepsis. Sterilization and disinfection.
3. Patient's interview and examination. Care of the skin and mucous membranes. Bedsore prevention and treatment.

4. Monitoring and medical care of patients with respiratory diseases. Thermometry. Monitoring and medical care of patients with hypo- and hyperthermia.
5. Monitoring and medical care of patients with cardiovascular diseases.
6. Monitoring and medical care of patients with digestive system diseases.
7. Monitoring and medical care of patients with urinary tract diseases.

4 semester:

1. Dressing room, principles of work organization.
2. Operating block, principles of work organization.
3. Preoperative preparation of the patient. Monitoring and medical care of patients in the postoperative period.
4. Features of monitoring and medical care of patients in the department of septic surgery. Monitoring and medical care of patients with mechanical and thermal injuries.
5. Procedure room, principles of work organization.
6. Parenteral route of medicine administration.
7. Rules for venipuncture. Ensuring the safety and specifics of preparing the patient for blood sampling for laboratory tests.

LIST OF PRACTICAL CLASSES

3 semester:

1. Nursing medical care

- 1.1. Medical ethics and deontology in nurse's work. Responsibilities of healthcare workers.
- 1.2. Types of healthcare settings. Hospital structure. Nurse duties.
- 1.3. Work organizing in the admission department of the hospital.
- 1.4. Ensuring infection safety in a hospital. Fundamentals of asepsis and antisepsis.
- 1.5. Sterilization and disinfection.
- 1.6. Medical documentation.
- 1.7. The use of medicines.
- 1.8. Patient's interview and examination.
- 1.9. Care of the skin and mucous membranes. Bedsore prevention and treatment.
- 1.10. Principles of therapeutic nutrition.
- 1.11. Nurse's role in patient's preparation for laboratory tests, diagnostic and treatment procedures.
- 1.12. Monitoring and medical care of patients with respiratory diseases.
- 1.13. Thermometry. Monitoring and medical care of patients with hypo- and hyperthermia.
- 1.14. Monitoring and medical care of patients with cardiovascular diseases.
- 1.15. Monitoring and medical care of patients with digestive system diseases.
- 1.16. Monitoring and medical care of patients with urinary tract diseases.
- 1.17. Monitoring and medical care of patients in the intensive care unit.

1.18. Monitoring and medical care of patients with terminal illnesses. Palliative care.

4 semester:

2. Manipulation technique

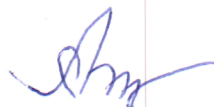
- 2.1 Dressing room, principles of work organization.
- 2.2 Operating block, principles of work organization.
- 2.3 Preoperative patient preparation.
- 2.4 Monitoring and medical care of patients in the postoperative period.
- 2.5 Monitoring and medical care of patients with mechanical and thermal injuries.
- 2.6 Monitoring and medical care of patients with plaster casts and skeletal traction.
- 2.7 Features of monitoring and medical care of patients in the department of septic surgery.
- 2.8 Procedure room, principles of work organization.
- 2.9 Parenteral route of medicine administration. Withdrawal of solution from an ampoule and a vial into a syringe. Performing an intradermal injection.
- 2.10 Performing a subcutaneous injection. Performing an intramuscular injection.
- 2.11 Rules for venipuncture. Blood sampling from a vein. Intravenous medicine administration using a syringe.
- 2.12 Insertion of a peripheral venous catheter.
- 2.13 Filling the infusion system. Intravenous medicine administration using an infusion system.
- 2.14 Use of a small vein infusion device «butterfly needle». Performing injections and infusions in the ward of a hospital organization, at home and at the place of an accident.
- 2.15 Urinary catheterization.
- 2.16 Insertion of orogastric tube. Insertion of nasogastric tube.
- 2.17 Insertion of a rectal catheter. Cleansing enema. Siphon, drug and oil enemas.

PROTOCOL OF THE CURRICULUM APPROVAL

Title of the discipline requiring approval	Department	Amendments to the curriculum in the academic discipline	Decision of the department, which designed the curriculum (date, protocol №)
Propaedeutics of Internal Diseases	Propaedeutics of Internal Diseases	No amendments and changes	Department of Propaedeutics of Internal Diseases (Protocol # 11 of 24.05.2022); Department of General Surgery (Protocol # 10 of 24.05.2022); Simulation and Attestation Center (Protocol # 10 of 18.05.2022)
General Surgery	General Surgery	No amendments and changes	Department of Propaedeutics of Internal Diseases (Protocol # 11 of 24.05.2022); Department of General Surgery (Protocol # 10 of 24.05.2022); Simulation and Attestation Center (Protocol # 10 of 18.05.2022)

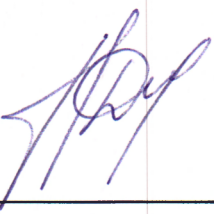
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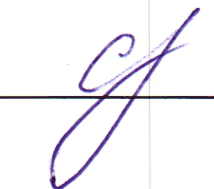
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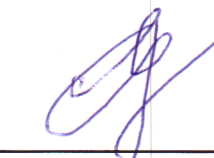
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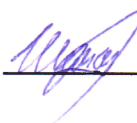
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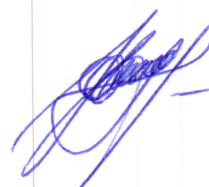


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Curriculum content, composition and the accompanying documents comply with the established requirements.

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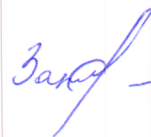
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