УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ
UNIVERSITY OF BANJA LUKA
МЕДИЦИНСКИ ФАКУЛТЕТ
FACULTY OF MEDICINE

CATALOG OF CLINICAL SKILLS

Academic Year/_____

How to fill in the the Clinical Skills Catalogue:

1. The instructor or assistant (practical exercises supervisor) signs off on each skill they believe the student has mastered.
2. The course coordinator signs the Clinical Skills Catalogue only after the practical exercises supervisor has signed off on all practical skills for that course, with the possibility of further verification.

The level of competence:

A. Theoretical knowledge of performing the skill
B. Observed the performance of the skill but has not performed it themselves
C. Performs the skill independently, but not routinely
D. Performs the skill routinely

Course title	Year of study	Semester	Number of practical teaching hours
First Aid	I	II	30 (15 x 2 hours)

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Approach to the unconscious patient, assessment of breathing and pulse, evaluation of consciousness using the Glasgow Coma Scale (GCS), trauma patient assessment - Trauma Score, 5 elements					
3.	Airway clearance and application of the "triple maneuver," securing the airway by placing an "airway," performing artificial ventilation using an "Ambu" bag, evaluation of adequate ventilation using a skillmeter					
4.	Securing the airway by placing a laryngeal mask and an „Igel“ mask					
5.	Approach to a patient with ACS - acute myocardial infarction and unstable angina pectoris, interpretation of ECG recordings for cardiac rhythms (VF, VT, PEA, Asystole)					
6.	Methods of stopping external bleeding, bandages, and dressing techniques; Pain assessment and management, types of wounds, and wound care procedures with and without suturing					
7.	Monitoring vital parameters during patient transport using a vital signs monitor in an ambulanc					
8.	Electrode placement and ECG recording, assessment of vital parameters, and monitoring in the clinic using a vital signs monitor					
9.	Performing basic CPR measures (BLS algorithm) in adults					

10.	Defibrillation technique, delivery of electric shocks, and interpretation of shockable rhythms using an AED					
11.	Performing pediatric basic CPR measures (PBLS algorithm)					
12.	Assessment of vital parameters in a newborn - Apgar score					
13.	Routes of administration and types of medications in resuscitation					
14.	Immobilization using improvised materials for head, spine, and extremity injuries					
15.	Immobilization using standard equipment for head, spine, and extremity injuries					
16.	Use of dressing materials and immobilization, including other indications (burns/frostbite)					
17.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Clinical Practice I	**II**	**III & IV**	**30 (15 x 2, two-semester)**

	Skills	The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.				■	
2.	Taking medical history in adults and children - heteroanamnesis		■			
3.	Observation of the patient's external appearance (inspection, palpation, percussion) of the head, face, and neck			■		
4.	Observation of the patient's external appearance (inspection, palpation, percussion, auscultation) of the chest, abdomen, and extremities			■		
5.	Measuring temperature - methods of measurement and temperature classifications				■	
6.	Checking breathing and determining the frequency, identifying different types of pathological breathing			■		
7.	Measuring blood pressure with a sphygmomanometer				■	
8.	Performing catheterization in males			■		
9.	Performing catheterization in females			■		
10.	Applications and types of rectal enemas in adults			■		
11.	Applications and types of enemas in children		■			
12.	Procedure for a patient who is vomiting – nasogastric tube insertion			■		
13.	Preparing the patient for surgery	■				
14.	Use and types of surgical sutures		■			
15.	Basic principles of shock treatment	■				
16.	Therapeutic approach to managing anaphylactic shock	■				

17.	Assessment of consciousness disorders - quantitative and qualitative levels					
18.	Application of thermal treatments in patient care – UV and infrared lamps					
19.	Application of thermal treatments in patient care with cold – cryotherapy					
20.	Materials and equipment for parenteral drug administration (subcutaneous, intramuscular, intravenous)					
21.	Administration of intravenous fluids and techniques, use of intravenous catheter – cannula					
22.	Exercise for determining blood groups, basic characteristics, and indications for blood transfusion					
23.	Determining BMI – formula for calculation					
24.	Food pyramid and caloric values					
25.	Different types of diets for patients (hepatic, diabetic, composition – diet plan)					
26.	Determining glucose with a glucometer					
27.	Patient care – basics of hygiene regimen					
28.	Surgical hand scrubbing					
29.	Disinfection and sterilization – preparation procedures					
30.	Patient transfer - Techniques of the stationary model					
31.	Means of transporting patients and monitoring of the patient being transported					
32.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Epidemiology	III	V	15

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Reporting infectious diseases					
3.	Keeping a register of infectious diseases					
4.	Reporting an epidemic					
5.	Processing reports of infectious diseases					
6.	Processing reports of an epidemic					
7.	Declaring the end of an epidemic					
8.	Periodic reports (weekly, monthly, annual) and comments on the trends of infectious diseases					
9.	Monitoring the epidemiological and epizootiological situation in other parts of the country and globally, and exchanging information					
10.	Information systems for data and information exchange at the international level					
11.	Field epidemiological investigation					
12.	Epidemic investigation					
13.	Epidemic control					
14.	Health surveillance of individuals in contact with patients, carriers, and returnees					
15.	Health surveillance of individuals in contact with patients, carriers, and returnees (repeated)					

16.	Planning mandatory immunization for a specific area and developing an annual immunization plan for the area					
17.	Planning and immunization of at-risk individuals					
18.	Working with vaccines (characteristics, storage, transport conditions, and usage)					
19.	Vaccine distribution					
20.	Report on the implementation of immunization for a specific area					
21.	Monitoring vaccine coverage					
22.	Evaluation of the implementation and success of the immunization program					
23.	Composition and characteristics of vaccines					
24.	Mass mandatory immunization program					
25.	Professional supervision and assistance in the implementation of immunization					
26.	Pre-vaccination examination					
27.	Administration of vaccines for diseases according to the applicable vaccine regulation					
28.	Monitoring and analysis of adverse reactions to vaccines					
29.	Intervention in case of adverse reactions to vaccines					
30.	Administration of passive immunological protection (tetanus, rabies)					
31.	Individual chemoprophylaxis (malaria, tuberculosis)					
32.	Mass chemoprophylaxis, indications, and implementation					
33.	Skin testing					
34.	Working with travelers abroad					
35.	Anti-rabies treatment for humans (examination, wound care, indications for protection, active and passive protection, communication with veterinary services)					
36.	Implementation of screening in the population					
37.	Evaluation of screening programs					
38.	Conducting epidemiological studies in practice					
39.	Processing data on patients					

40.	Field experiment					
41.	Monitoring morbidity and mortality indicators in the population					
42.	Proposal of intervention measures and anti-epidemic measures					
43.	Keeping records of carriers (typhoid fever, salmonella, carriers of HBsAg)					
44.	Keeping records of individuals subject to periodic examinations					
45.	Keeping records of individuals subject to periodic examinations (HIV/AIDS)					
46.	Maintaining registers of chronic non-communicable diseases (Cancer registry, diabetes registry, cardiovascular diseases)					
47.	Maintaining registers of infectious diseases subject to reporting according to the law					
48.	Working with computer-based epidemiological programs					
49.	DDD procedures (Defined Daily Dose)					
50.	Monitoring injuries (reporting, recording, processing reports, epidemiological investigation, intervention)					
51.	Work on the epidemiology of chronic non-communicable diseases (monitoring the situation, epidemiological analysis, implementation of intervention programs, evaluation of programs) Counseling (HIV and other sexually transmitted diseases)					
52.	Health education work					
53.	Course on hygiene practices in food handling, so-called *hygienic minimum course*					
54.	Communication with the media					
55.	Epidemiological analysis of health and statistical data					
56.	Evaluation of healthcare using epidemiological methods					
57.	Sampling for testing					
58.	Sending samples for testing					
59.	Field surveys					

60.	Sterilization control					
61.	Adopted principles of working with infectious patients					
62.	Medical history and examination of an infectious disease patient					
63.	Diagnostic procedure					
64.	Collection of material for microbiological testing					
65.	Taking an epidemiological history					
66.	Isolation in infectious diseases					
67.	Disinfection					
68.	Administration of sera and immunoglobulins					
69.	Reporting infectious diseases					
70.	Examination and history-taking of internal medicine patients					
71.	Diagnosis establishment					
72.	Procedure for determining therapy and monitoring its effectiveness					
73.	Reporting notifiable diseases					
74.	Principles of working with infectious materials					
75.	Procedures for inoculating infectious material					
76.	Testing bacterial sensitivity to antibiotics					
77.	Microscopy					
78.	Serological diagnosis of infectious diseases					
79.	Stool examination for intestinal protozoa and helminths					
80.	Interpretation of microbiological results					
81.	Principles of molecular diagnostics					
82.	Sterilization control					
83.	Collection of air samples for microbiological testing, assessment of air quality					
84.	Collection of water samples for microbiological examination					

85.	Collection of food samples for microbiological examination					
86.	Collection of water samples for physical-chemical analysis					
87.	Collection of air samples for chemical analysis					
88.	Sanitary inspection of water facilities					
89.	Assessment of sanitary-hygienic conditions in public food service facilities					
90.	Assessment of sanitary-hygienic conditions in food production and processing facilities					
91.	Evaluation of the quality of work in healthcare institutions					
92.	Report on quality indicators of healthcare institutions' performance					
93.	Work plan of the epidemiological service and healthcare institution					
94.	Assessment of patient satisfaction with healthcare services					
95.	Planning and implementation of health-educational programs					
96.	Conducting a SWOT analysis for healthcare management					
97.	Practical work with user software packages for data processing					
98.	Statistical description of data					
99.	Presentation of obtained data					
100.	Adoption of asepsis and antisepsis principles					
101.	Disinfection and sterilization					
102.	Organization of prevention and control of nosocomial infections					
103.	Principles of nosocomial infection prevention					
104.	Postpartum care					
105.	Early detection of gynecological tumor diseases					
106.	Taking patient history and performing examination					
107.	Sampling for analysis					

108.	Organization of infection control and prevention measures in the pediatric ward					
109.	Chest X-ray in the diagnosis of infectious diseases					
110.	Breast cancer screening					
111.	Physical examination of the patient					
112.	Breast self-examination					
113.	Understanding and interpretation of screening tests					
114.	Understanding and interpretation of diagnostic tests					
115.	Reporting malignant diseases					
116.	Structure and organization of sanitary inspection					
117.	Sanitary inspection supervision of accommodation facilities					
118.	Sanitary inspection supervision of food production and processing facilities					
119.	Sanitary inspection supervision of water production and distribution facilities					
120.	Sanitary inspection supervision at the border					
121.	Procedure for issuing sanitary approvals for occupancy permits					
122.	Agricultural and veterinary supervision of food quality					
123.	Organization of animal vaccination					
124.	Organization of diagnostics and reporting of zoonoses					
125.	Organization, scope, and operation of transfusion services					
126.	Organization, scope, and operation of work					
127.	Organization, scope, and operation of work					
128.	Organization, scope, and operation of work					
129.	Dijagnoza, diferencijalna dijagnoza i tretman urgentnih stanja					

Course title	Year of study	Semester	Number of practical teaching hours
Clinical Propedeutics	**III**	**VI**	**5 hours per week (total of 75 hours)**

Skills		The level of competence				Assistant/Associate's Signature
		A	**B**	**C**	**D**	
1.	**Ethical behavior and patient information:** skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	**The concept of health and illness Anamnesis - methodology of collecting information about disease symptoms**					
3.	**Physical examination: inspection, palpation, percussion, auscultation**					
4.	**Anamnesis, physical examination of the head and neck**					
5.	Inspection of the eyes, nose, throat, oral cavity					
6.	Palpation of the thyroid, determining size, mobility					
7.	Auscultation of the carotid artery					
8.	**Anamnesis, physical examination of the cardiovascular system**					
9.	Percussion and auscultation of the heart					
10.	Interpretation of ECG					
11.	Ultrasound of the heart					
12.	Ergometry, coronary angiography					
13.	Pericardiocentesis					
14.	Palpation of peripheral blood vessels					
15.	Opening of the peripheral venous access					
16.	**Anamnesis, physical examination of the respiratory system**					
17.	Percussion and auscultation of the lungs					
18.	Arterial puncture for gas analysis					
19.	Aspiration of tracheobronchial content					

20.	Spirometry, bronchodilation, plethysmography					
21.	Pleural puncture					
22.	Bronhoskopija, periferne biopsije					
23.	**Anamneza, fizikalni pregled digestivnog sistema**					
24.	Palpation of abdominal organs					
25.	Auscultation of abdominal organs					
26.	Insertion of a nasogastric tube					
27.	Ultrasound examination of the digestive organs					
28.	Digital rectal examination					
29.	Endoscopic examination of the digestive system					
30.	**Anamnesis, physical examination of the urogenital system**					
31.	Examination of external genitalia Insertion of urinary catheter					
32.	Ultrasound diagnosis of the genitourinary system					
33.	Kidney biopsy					
34.	**Anamnesis, physical examination of the musculoskeletal system**					
35.	Joint mobility, diagnostic procedures					
36.	Aspiration of joint spaces					
37.	**Anamnesis, physical examination of the hematopoietic system**					
38.	Palpation of lymph nodes					
39.	Peripheral smear					
40.	Bone marrow biopsy					
41.	**Anamnesis, physical examination of the endocrine system**					
42.	Interpretation of laboratory findings in the assessment of endocrine system function					
43.	Ultrasound of the thyroid gland and fine needle aspiration of nodules					
44.	Insulin injection					
45.	Measuring blood glucose using a glucometer					

46.	Insertion of a sensor for continuous glucose monitoring					
47.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Internal Medicine	IV	VII & VIII	225

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Anamnesis					
3.	General status					
4.	Auscultation of the heart					
5.	Interpretation of electrocardiogram					
6.	Ergometry					
7.	Ultrasound examination of the heart					
8.	Coronary angiography					
9.	Pericardiocentesis					
10.	Capillaroscopy					
11.	Osteodensitometry					
12.	Ultrasound of joints and soft tissues					
13.	Joint aspiration					
14.	Intra-articular injections					
15.	Digital rectal examination					
16.	Ascitic puncture					
17.	Gastroscopy					
18.	Colonoscopy					
19.	Endoscopic ultrasound of the digestive tract					
20.	Anamnesis and clinical examination of a nephrological patient					

21.	Methods for assessing renal function, determining creatinine clearance					
22.	Analysis of 24-hour blood pressure Holter					
23.	Abdominal echsonography					
24.	Methods of renal function replacement (hemodialysis and peritoneal dialysis)					
25.	Temporary and permanent vascular access for dialysis					
26.	Kidney biopsy					
27.	Approach to a patient with a transplanted kidney					
28.	Anamnesis and physical examination of an endocrinological patient					
29.	Interpretation of laboratory findings in the assessment of endocrine function					
30.	Ultrasound examination of the thyroid gland					
31.	Aspiration of thyroid nodule					
32.	Measuring blood glucose using a glucometer					
33.	Insertion of a sensor for continuous glucose monitoring					
34.	Principles of injectable therapy in diabetes					
35.	Insulin injection					
36.	Treatment of hypoglycemia in a conscious patient					
37.	Treatment of hypoglycemia in an unconscious patient					
38.	Determination of Ferriman-Gallwey score for hirsutism					
39.	Interpretation of DXA osteodensitometry findings					
40.	Taking anamnesis of a hematological patient					
41.	Bone marrow aspiration					
42.	Palpation of peripheral lymph nodes and diagnosis of lymphadenopathy					
43.	Palpation of the liver and spleen - splenomegaly and hepatomegaly					
44.	Peripheral blood smear examination					
45.	Differential diagnosis of hematological disorders					

46.	Analysis of blood count and biochemical tests					
47.	Anamnesis of a pulmonological patient					
48.	General status of a pulmonological patient					
49.	Auscultation of the lungs in a patient with various lung diseases					
50.	Interpretation of chest X-ray					
51.	Spirometry					
52.	Ultrasound examination of the pleura					
53.	Bronchoscopy					
54.	Pleural puncture					
55.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Signature of the Course Supervisor/Head of the Department: _____

Course title	Year of study	Semester	Number of practical teaching hours
Infectious diseases with special epidemiology	**IV**	**VII i VIII**	**60**

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Transient elastography (FibroScan)					
3.	Patient isolation					
4.	Collection of swabs, blood cultures, urine cultures, stool cultures, and stool analysis for intestinal parasites					
5.	Preparation for lumbar puncture					
6.	Performing meningeal signs (all signs)					
7.	Lumbar puncture with interpretation of cerebrospinal fluid cytobiochemical findings					
8.	Examination of the throat using a light source					
9.	Blind aspiration biopsy of the liver					
10.	Interpretation of viral hepatitis markers					
11.	Assessment of the degree of dehydration, treatment, and nutrition					
12.	Clinical examination of lymph nodes					
13.	Comprehensive examination of all organ systems					
14.	Determination of organ dysfunction extent using SOFA score					
15.	Epidemiological history					
16.	Pre-exposure and post-exposure prophylaxis: anti-rabies and anti-tetanus					
17.	Interpretation of rapid screening tests for HIV/HCV/HBV					
18.	Procedure for the occurrence of hospital-acquired infections, reporting to the HAI team					
19.	Collection of nasopharyngeal swabs for respiratory infections					

20.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Neurology	IV	VII & VIII	45

Skills	The level of competence				Assistant/Associate's Signature
	A	B	C	D	
1. Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2. Proper taking of neurological anamnesis					
3. Performing a neurological examination – head, neck, cranial nerves					
4. Performing a neurological examination – motility and sensitivity					
5. Performing a neurological examination – pyramidal and extrapyramidal system					
6. Performing a neurological examination – cerebellum					
7. Detection and clinical significance of gait and movement disorders					
8. Testing the central and peripheral motor neurons					
9. Determining speech and memory function disorders					
10. Testing muscle tone and reflexes					
11. Testing higher cortical functions					
12. Performing a lumbar puncture and interpreting the clinical significance of findings					
13. Familiarity with urgent conditions in neurology					
14. Differential diagnosis of comatose states					
15. Differential diagnosis of altered consciousness crises					
16. Differential diagnostic guidelines for headaches					
17. Understanding the specifics of therapy in neurology					
18. Administering thrombolytic therapy					

19. Performing and interpreting EEG findings					
20. Application of ultrasound diagnostics in neurology					
21. Performing and interpreting EMG findings					
22. Performing and interpreting findings from evoked potential procedures					
23. Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Psychiatry	IV	VII	45

Skills		The level of competence				Assistant/Associate's Signature
		A	**B**	**C**	**D**	
1.	**Ethical behavior and patient information:** skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	**Anamnesis (skill)**					
3.	Family anamnesis					
4.	Personal anamnesis					
5.	Social anamnesis					
6.	Psychiatric anamnesis					
7.	**Diagnostic methods and procedures**					
8.	Assessment of affectivity					
9.	Assessment and intelligence tests					
10.	Mental status (Mini Mental State)					
11.	Thinking, form and content					
12.	Attention assessment					
13.	Perception assessment					
14.	Level of consciousness and orientation					
15.	Suicidality, recognition					
16.	**Legal aspects of psychiatry**					
17.	Review of the Law on persons with mental disorders					
18.	Hospitalization and involuntary admission					
19.	Legal capacity of the patient					
20.	Media reporting on patients with mental disorders and suicide					
21.	**Urgent conditions in psychiatry**					

22.	**Psychotherapy**					
23.	Cognitive-behavioral psychotherapy					
24.	Psychodynamic psychotherapy					
25.	Systemic psychotherapy					
26.	Relaxation techniques					
27.	**Electroconvulsive therapy**					
28.	**Sleep deprivation treatment**					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Dermatovenerology	IV	VII & VIII	30

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Anamnesis (Familiarization with the technique of collecting anamnesis data in patients with dermatovenerological conditions and working with patients - case presentations).					
3.	Objective Examination (Familiarization with the technique of clinical examination of patients, with a special focus on local dermatological status, and working with patients - case presentations).					
4.	Efflorescences (Familiarization with the basic concepts of macroscopically visible changes on the skin - efflorescences at skin level, above skin level, and below skin level - and working with patients).					
5.	Auxiliary Diagnostic Methods (Familiarization with the technique of skin surface scraping, diascopy technique, probing technique, collection of material for microscopic analysis, and working with patients - case presentations).					
6.	Laboratory Diagnosis of Syphilis (Familiarization with the dark-field microscopy method, the technique and significance of nonspecific and specific serological reactions in the diagnosis of syphilis, and working with patients - case presentations).					
7.	Diagnosis of Gonorrhea, Chancroid, and Lymphogranuloma Venereum (Familiarization with the Gram and methylene blue staining methods, the technique of microscopy of stained specimens, and other relevant diagnostic					

	methods, as well as working with patients - case presentations).					
8.	Therapy of Sexually Transmitted Diseases (Treatment of syphilis, gonorrhea, chancroid, and lymphogranuloma venereum, and working with patients - case presentations).					
9.	Dermatological Therapy (Familiarization with the basic principles of general and local dermatological therapy, selection of possible medications, their indications, side effects, contraindications, and working with patients - case presentations).					
10.	Tour of Departments and Units (Tour of the clinic departments, familiarization with their operations, visit to the allergy and clinical immunology unit, angiology unit, and understanding their organization and scope of work, including working with patients).					
11.	Tour of the Outpatient Clinic and Work with Ambulatory Patients					
12.	Minor Surgical Procedures (Curettage, electrocauterization, biopsy, and excision of skin lesions using biopsy punches and scalpels).					
13.	Familiarization with Emergency Conditions in Dermatovenerology (Urticaria, angioedema, erysipelas, Lyell's syndrome - case presentations).					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Radiology	IV	VII	30

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Informing patients about the harmful effects of ionizing radiation					
3.	Understanding the concept and significance of diagnostic and interventional radiology					
4.	Knowledge of the structure of the X-ray tube					
5.	Understanding the production and properties of X-rays					
6.	Knowledge of the basic characteristics of ionizing radiation					
7.	Understanding the biological effects of ionizing radiation					
8.	Prevention of harmful effects of ionizing radiation					
9.	Knowledge of professional staff protection and dosimetry					
10.	Understanding the construction of X-ray devices					
11.	Knowledge of the basic principles of ultrasound and ultrasound equipment					
12.	Understanding the basic principles of computed tomography and CT devices					
13.	Knowledge of the basic principles of magnetic resonance imaging (MRI) and MRI devices					
14.	Understanding the construction of angiographic devices					
15.	Differentiating between normal and pathological findings on chest radiography					
16.	Knowledge of the algorithm for radiological examination of the chest					

17.	Understanding the basic principles of radiological diagnosis of lung parenchyma diseases					
18.	Understanding the basic principles of radiological diagnosis of pleural diseases					
19.	Understanding the basic principles of radiological diagnosis of lung tumors					
20.	Understanding the basic principles of radiological diagnosis of pulmonary embolism					
21.	Understanding the basic principles of radiological diagnosis of interstitial lung diseases					
22.	Understanding the basic principles of radiological diagnosis of situs inversus					
23.	Understanding the basic principles of radiological diagnosis of congenital heart defects					
24.	Understanding the basic principles of radiological diagnosis of coronary artery disease					
25.	Understanding the basic principles of radiological diagnosis of aortic dissection					
26.	Understanding the basic principles of radiological diagnosis of bone fractures					
27.	Radiological methods for examining the musculoskeletal system					
28.	Understanding the basic principles of radiological diagnosis of benign and malignant bone tumors					
29.	Understanding the basic principles of radiological diagnosis of rheumatoid arthritis					
30.	Understanding the basic principles of radiological diagnosis of degenerative spine diseases					
31.	Understanding the basic principles of radiological diagnosis of osteomyelitis					
32.	Knowledge of gastrointestinal tract (GIT) examination methods					
33.	Interpretation of native abdominal X-ray images					
34.	Knowledge of X-ray anatomy of the esophagus, stomach, small intestine, and large intestine					
35.	Understanding the basic principles of radiological diagnosis of peptic ulcer disease					

36.	Understanding the basic principles of radiological diagnosis of benign GIT tumors					
37.	Understanding the basic principles of radiological diagnosis of malignant GIT tumors					
38.	Understanding the basic principles of radiological diagnosis of Crohn's disease					
39.	Understanding the basic principles of radiological diagnosis of ulcerative colitis					
40.	Understanding the basic principles of radiological diagnosis of hypertrophic pyloric stenosis					
41.	Understanding the basic principles of radiological diagnosis of acute appendicitis					
42.	Knowledge of radiological anatomy of the liver					
43.	Knowledge of radiological anatomy of the biliary tree					
44.	Knowledge of radiological anatomy of the pancreas and spleen					
45.	Understanding the basic principles of radiological diagnosis of benign liver lesions					
46.	Understanding the basic principles of radiological diagnosis of malignant liver lesions					
47.	Understanding the basic principles of radiological diagnosis of biliary calculi and obstruction					
48.	Understanding the basic principles of radiological diagnosis of pancreatitis					
49.	Understanding the basic principles of radiological diagnosis of benign and malignant tumors of the pancreas					
50.	Understanding the basic principles of radiological diagnosis of spleen diseases					
51.	Knowledge of methods for examining the urogenital tract					
52.	Understanding the basic principles of radiological diagnosis of developmental anomalies of the urinary tract					
53.	Understanding the basic principles of radiological diagnosis of benign tumors of the urinary tract					
54.	Understanding the basic principles of radiological diagnosis of malignant tumors of the urinary tract					

55.	Understanding the basic principles of radiological diagnosis of uroobstruction					
56.	Understanding the basic principles of radiological diagnosis of adrenal gland diseases					
57.	Knowledge of indications for breast ultrasound					
58.	Knowledge of indications for mammography					
59.	Understanding the basic concepts of screening mammography					
60.	Understanding the basic principles of radiological diagnosis of benign breast tumors					
61.	Understanding the basic principles of radiological diagnosis of malignant breast tumors					
62.	Knowledge of indications for angiographic examinations					
63.	Modern non-invasive methods for imaging blood vessels: ultrasound (US), computed tomography (CT), magnetic resonance (MR)					
64.	Understanding the basic principles of digital subtraction angiography (DSA)					
65.	Understanding the basic principles of radiological diagnosis of arterial stenotic lesions					
66.	Understanding the basic principles of radiological diagnosis of aneurysms					
67.	Understanding the basic principles of interventional vascular methods (dilatation, stenting, thrombectomy, thrombolysis)					
68.	nderstanding the basic principles of non-vascular interventional radiological methods (biopsy, drainage, ablation)					
69.	Radiological methods in the diagnosis of central nervous system (CNS) diseases					
70.	Understanding the basic principles of radiological diagnosis of CNS trauma					
71.	Understanding the basic principles of radiological diagnosis of intra- and extra-axial intracranial hematomas					
72.	Understanding the basic principles of radiological diagnosis of CNS tumors					
73.	Understanding the basic principles of radiological diagnosis of pituitary gland disorders					

74.	Understanding the basic principles of radiological diagnosis of ischemic lesions in the CNS					
75.	Understanding the basic principles of radiological diagnosis of infectious CNS diseases					
76.	Understanding the basic principles of radiological diagnosis of white matter diseases					
77.	Understanding the basic principles of radiological diagnosis of eye diseases					
78.	Understanding the basic principles of radiological diagnosis of ear diseases					
79.	Differentiating and recognizing individual radiological examinations and techniques					
80.	Interpretation of native abdominal X-ray, ileus, pneumoperitoneum					
81.	Interpretation of native urotract X-ray, calculosis					
82.	Chest X-ray interpretation, findings of pleural effusion, pneumothorax, hydropneumothorax					
83.	X-ray of bones, interpretation of the most common fractures					
84.	Abdominal ultrasound, imaging of all organs					
85.	Neck ultrasound, imaging of all organs					
86.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Clinical Microbiology	III	V	

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Taking a nasopharyngeal swab sample					
3.	Taking screening test samples					
4.	Performing a rapid immunochromatographic test (e.g., test for rotavirus and adenovirus)					
5.	Performing an FIA method test for infectious disease pathogens' antigens (e.g., influenza A and B)					
6.	Familiarization with factors affecting microbiological test results (e.g., the impact of previous antimicrobial therapy on blood culture results)					
7.	Making a direct microscopic preparation and Gram staining					
8.	Staining preparations with Ziehl-Neelsen and auramine, microscopic examination of the preparations					
9.	Taking and culturing a throat swab (e.g., Streptococcus group A)					
10.	Processing and culturing urine samples (factors affecting the analysis result)					
11.	Processing blood samples and basic serological analyses					

12.	Interpretation of serological tests (e.g., acute and chronic infections)					
13.	Taking samples for virological tests					
14.	Interpretation of findings in clinical microbiology in accordance with sepsis biomarker results (CRP, procalcitonin)					
15.	Preparation and interpretation of antimicrobial susceptibility testing using the disk diffusion method					
16.	Application of modern methods in clinical microbiology (“point of care” tests, syndromic testing panels)					
17.	Handling biological samples, decontamination, and disposal of biological material					

Course Supervisor/Department Chair’s Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Nuclear Medicine	IV	VIII	15

Skills		The level of competence				Assistant/Associate's Signature
		A	**B**	**C**	**D**	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.				■	
2.	Working with open radiation sources		■			
3.	Korištenje mjera zaštite od jonizujućeg zračenja pri radu sa otvorenim izvorima		■			
4.	Using protective equipment when working with open sources			■		
5.	Elution of the ^{99}Mo-^{99m}Tc generator		■			
6.	Preparation of radiopharmaceuticals for scintigraphy		■			
7.	Preparing patients for scintigraphy			■		
8.	Administration of radiopharmaceuticals to the patient		■			
9.	Positioning the patient on the gamma camera and acquisition		■			
10.	Processing and evaluation of scintigrams		■			
11.	Use of radiation protection measures when working with positron emitters		■			
12.	Preparation of radiopharmaceuticals for positron emission tomography (PET)		■			
13.	Preparing patients for PET			■		
14.	Administration of radiopharmaceuticals for PET to the patient		■			
15.	Positioning the patient on the PET or PET/CT scanner and acquisition		■			
16.	Processing and evaluating images and data obtained from PET		■			
17.	Working with radiopharmaceuticals for radionuclide therapy		■			
18.	Administration of radionuclide therapy to the patient		■			

19.	Use of radiation protection measures in radionuclide therapy					
20.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Surgery	V	IX & X	210

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Anamnesis and physical examination of a surgical patient					
3.	Wound care: procedure for clean wounds					
4.	Wound care: procedure for "dirty" wounds					
5.	Wound suturing, knot tying, surgical knots					
6.	Dressing changes and aseptic dressing replacement					
7.	Removal of sutures					
8.	Shortening and removal of drains					
9.	Preoperative assessment of patient condition					
10.	Handwashing					
11.	Gowning and gloving					
12.	Cleaning and draping the surgical field					
13.	Applying temporary immobilization					
14.	Palpation of peripheral arteries					
15.	Homan's and Adson's tests					
16.	Digital rectal examination					
17.	Digital rectal examination of the prostate					
18.	Technique of local anesthesia					
19.	Techniques for stopping bleeding (digital, local pressure, tamponade, suture)					
20.	Knowledge of surgical instruments					

21.	Placement of a urinary catheter					
22.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Pediatrics	V	IX i X	90

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Pediatric history and examination					
3.	Doctor-child-parent relationship – simulation					
4.	Recognition of signs of child abuse					
5.	Assessment of vital functions in neonates, infants, preschool, and school-aged children					
6.	Assessment of a child's general condition					
7.	Management of suspected acute poisoning					
8.	Assessment of a child's level of consciousness					
9.	Management of febrile seizures and status epilepticus					
10.	Neonate: examination, age assessment, vitality (Apgar Score), and primitive reflexes					
11.	Management of a healthy neonate in the delivery room					
12.	Management of a critically ill neonate in the delivery room					
13.	Neonatal resuscitation					
14.	Classification of neonates by gestational age and birth weight					
15.	Assessment of a neonate's gestational age based on clinical characteristics					
16.	Evaluation of the degree of dehydration in a child					
17.	Auscultation of the heart in neonates, infants, and older children Physical diagnosis of cardiac diseases					

18.	Genealogy research, history taking, and examination in genetics					
19.	Neurological examination of children – specifics by age groups					
20.	Lumbar puncture, EEG					
21.	Diabetes mellitus in children – recognition and initial treatment of diabetic ketoacidosis					
22.	Infusion therapy and establishing venous access					
23.	Imaging diagnostic methods in nephrology					
24.	Physical and radiological diagnosis of pulmonary diseases in children					
25.	Recognition and management of airway obstructions					
26.	Natural nutrition – breastfeeding techniques, artificial nutrition, parenteral nutrition, assessment of nutritional status, malabsorption syndromes					
27.	Recognition of clinical signs of blood coagulation disorders					
28.	Interpretation of complete blood count					
29.	Basic procedures in palliative care					
30.	Bone marrow aspiration					
31.	Assessment of delays in the psychomotor development of a child					
32.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Obstetrics and Gynaecology	V	IX & X	105

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Gynecological anamnesis, medical documentation					
3.	General and gynecological examination in cadavers – exercises on the phantom					
4.	General and gynecological examination (examination in cadavers – speculum; bimanual gynecological examination; digital rectal examination; surgical donning of sterile gloves)					
5.	Cytological examination of the cervix (Pap smear), taking vaginal and cervical swabs; HPV typing					
6.	Colposcopy					
7.	Cervical biopsy, curettage of the cervical canal					
8.	Hysteroscopy (office, diagnostic, operative)					
9.	Fractional exploratory curettage					
10.	Pathology of the vulva, vagina, and cervix (benign and malignant changes, inflammations, injuries, anomalies) – inspection, examination, diagnostics, treatment					
11.	Pathology of the uterus (benign and malignant tumors, inflammations, adenomyosis, anomalies, injuries) – anamnesis, clinical picture, examination, diagnosis, treatment, and management					
12.	Pathology of the adnexa and parametrium (benign and malignant changes, inflammations, ectopic pregnancy) – anamnesis, examination, diagnosis, and therapy					

13.	Pelvic organ statics disorders (descent and prolapse of the uterus, cystocele, enterocele) – anamnesis, clinical picture, examination, diagnosis, therapeutic modalities					
14.	Acute abdomen in gynecology (anamnesis, clinical picture, examination, diagnosis, differential diagnosis, treatment)					
15.	Ectopic pregnancy (anamnesis, clinical picture, gynecological examination, diagnosis, differential diagnosis, treatment modalities); Pathological pregnancy in the 1st and 2nd trimester; Spontaneous abortion (anamnesis, clinical picture, examination, diagnosis, and therapy);					
16.	Menstrual cycle disorders (anamnesis, clinical picture, diagnosis, therapeutic modalities of treatment);					
17.	Induced (artificial) abortion up to the 10th week of gestation (instrumental and medicamentous procedures);					
18.	Medicamentous abortion for pregnancies older than 10 weeks – indicated due to pathological pregnancy, maternal comorbidities, or ethical reasons (anamnesis, clinical picture, lab analyses, examination, ultrasound diagnosis, protocols for medicamentous abortion)					
19.	Revision of the uterine cavity (instrumental, manual)					
20.	Contraception and contraceptive methods, assisting in the application/extraction of IUD (Intrauterine Device) Marital infertility (methods of investigation and therapeutic modalities)					
21.	Operating room and intensive care (asepsis, antisepsis, preoperative preparation of the patient). Washing and preparing the surgical field, surgical principles in the operating room.					
22.	Techniques for inserting a urinary catheter.					
23.	Suturing techniques in surgery – practice on a model.					
24.	Basics of gynecological surgery (laparotomies, vaginal surgeries, laparoscopy, preparation of the patient for					

	surgery, preoperative prophylaxis, postoperative care of the patient).					
25.	Basics of ultrasound diagnostics in gynecology.					
26.	Obstetric anamnesis, medical documentation.					
27.	Obstetric examination, examination in clinics, bimanual examination of the pregnant woman; taking a cervical smear, test for amniotic fluid leakage, rectovaginal smear for beta-hemolytic streptococcus; External examination of the pregnant woman (Leopold-Pavlik maneuvers), external pelvic measurements, measuring the height of the fundus and uterine tone.					
28.	Kardiotokografija (indikacije, postupak, interpretacija);					
29.	Basics of ultrasound diagnostics in perinatology					
30.	Amnioscopy					
31.	Oxytocin test					
32.	Antepartum fetal monitoring (BPP, CTG, Doppler);					
33.	Monitoring of physiological and high-risk pregnancies (inspection, measurement of maternal vital parameters, lab analyses, antepartum monitoring)					
34.	Possible complications in low-risk and high-risk pregnancies (diagnosis, treatment)					
35.	Preparation and admission of the patient (pregnant woman) to the maternity ward					
36.	Factors of labor – exercises on a mannequin					
37.	Mechanism of normal labor, labor with deflection, rotational anomalies, asynclitism – exercises on a mannequin					
38.	Third stage of labor – placenta extraction – exercises on a mannequin					
39.	Labor in breech presentation – exercises on a mannequin					
40.	Labor in twin pregnancy – exercises on a mannequin					
41.	Admission and examination of the pregnant woman in the maternity ward (blood pressure, pulse, venous access,					

	assessment of cervical maturity, dilation, presentation, position, fetal habitus), verification and monitoring of fetal heart rate, cardiotocography – interpretation					
42.	Induction of labor, labor stimulation					
43.	Artificial rupture of membranes Assisted vaginal delivery in cephalic presentation (conditions for epidural analgesia, episiotomy, cord clamping, newborn reception)					
44.	Support during breech presentation and twin births (vaginal delivery)					
45.	Obstetric procedures in the third stage of labor (delivery of the placenta): manual spontaneous placental separation, lysis and extraction of adherent placenta, manual/instrumental revision of the uterine cavity					
46.	Episiotomy and assistance with episiotomy care (suturing) Local anesthesia for perineum and episiotomy Pudendal block anesthesia Revision and suturing of the soft birth canal					
47.	Fourth stage of labor: Postpartum monitoring of uterine contractility and fundal height, monitoring the general condition and vital signs of the mother; assessment of blood loss during and after delivery;					
48.	Newborn care					
49.	Puerperium: Monitoring and examination of the puerpera; Lactation: Inspection and palpation of the breast					
50.	Delivery in high-risk pregnancies					
51.	Obstetric surgeries (vacuum extraction, uterine cavity revision, cervical revision and suturing, vaginal and perineal revision and suturing, episiotomy, cesarean section)					
52.	Acute conditions in obstetrics (emergency management of the pregnant woman, intrapartum fetal monitoring and delivery modalities);					

53.	Postpartum hemorrhage (PPH) – early and late (clinical presentation, procedures, and treatment)					
54.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Physical Medicine and Rehabilitation	IV	VIII	15

	Skills	The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Proper taking of anamnesis and clinical examination of the musculoskeletal system					
3.	Gait analysis, gait disorders, posture analysis, range of motion measurement, muscle strength testing.					
4.	Analysis of movement and pathological movement patterns. Assessment of the content of the kinesiotherapy program.					
5.	Familiarity with the application of unidirectional, alternating low-frequency currents.					
6.	Familiarity with the application of thermotherapy procedures (hot compresses, paraffin, peloid), cryotherapy, and hydrotherapy.					
7.	Familiarity with the application of medium-frequency and high-frequency currents, selection of modes in radiofrequency therapy.					
8.	Application of ultrasound diagnostics in physical medicine, rehabilitation, and treatment.					
9.	Performing and techniques of phototherapy application (IC, UV), determining biodose. Performing biostimulatory LASER and magnetotherapy.					
10.	Functional testing of patients with peripheral nerve lesions and application of agents in rehabilitation after peripheral nerve injury.					

11.	Functional testing of patients with central motor neuron lesions and the content of the rehabilitation plan in acute and post-acute rehabilitation.					
12.	Functional assessment of patients after bone and joint trauma, muscle and ligament injuries. Performing acute and post-acute rehabilitation.					
13.	Bandaging and care of stumps after limb amputation. Familiarity with elements of prosthetics, prosthesis fabrication, and the use of mobility aids.					
14.	Functional assessment of patients with rheumatological diseases and conditions. Performing rehabilitation in the acute and post-acute phase of inflammatory, degenerative, and extra-articular rheumatism.					
15.	Performing anthropometric measurements and testing in pediatric rehabilitation. Fabrication and application of spinal orthoses.					
16.	Familiarity with guidelines in cardiopulmonary rehabilitation.					
17.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Ophthalmology	VI	XI	30

Skills	The level of competence				Assistant/Associate's Signature
	A	B	C	D	
1. **Ethical behavior and patient information:** skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.				■	
2. **Orbit:** Examination methods, diagnostics, physiological findings, cellulitis, phlegmon, abscess, exophthalmos, enophthalmos, tumors, injuries, surgical interventions.		■			
3. **Eyelids:** Examination methods, physiological findings, eyelid edema, hordeolum, chalazion.				■	
4. **Eyelids:** Blepharitis, ectropion, entropion, trichiasis, lagophthalmos, ptosis, tumors, injuries, surgical interventions.		■			
5. **Lacrimal apparatus:** Examination methods, physiological findings, dacryocystitis, dacryoadenitis, tumors, injuries, surgical interventions.		■			
6. **Conjunctiva:** Examination methods, diagnostics, physiological findings, conjunctival smear, suffusion, foreign body in the conjunctiva, slit lamp biomicroscopy in ophthalmology, use of slit light.			■		
7. **Conjunctiva:** Bacterial conjunctivitis, viral conjunctivitis, allergic conjunctivitis, neonatal conjunctivitis, epidemic conjunctivitis, chronic conjunctivitis, pterygium, tumors, injuries, surgical interventions.		■			
8. **Cornea:** Examination methods, diagnostics, physiological findings, corneal smear, corneal erosions, foreign body in the cornea, dry eye.			■		
9. **Cornea and Sclera:** Bacterial keratitis, viral keratitis, fungal keratitis, trophic keratitis, corneal dystrophies and		■			

degenerations, corneal ectasia, refractive surgery, episcleritis, scleritis, injuries, surgical interventions.					
10. **Uvea:** Examination methods, physiological findings, iridocyclitis, intermediate uveitis, chorioretinitis, panuveitis, sympathetic ophthalmia, uveal tumors.					
11. **Lens:** Examination methods, physiological findings, senile cataract, complicated cataract, secondary cataract.					
12. **Lens:** Displacement of the lens, aphakia, pseudophakia, surgical techniques, complications, phacoemulsification - video demonstration.					
13. **Vitreous Body**: Examination methods, physiological findings, degenerative changes, hemophthalmia, endophthalmitis.					
14. **Retina:** Examination methods, physiological findings, diagnostic methods, inflammatory changes of the retina and choroid, hypertensive retinopathy, atherosclerotic retinopathy.					
15. **Retina:** Diabetic retinopathy, occlusive retinal vascular diseases, macular degenerations and dystrophies, retinitis pigmentosa, retinopathy of prematurity, retinal rupture, retinal detachment, vitreoretinal surgery.					
16. **Glaucoma:** Examination methods, diagnostics, ocular hypertension.					
17. **Glaucoma:** Congenital glaucoma, open-angle glaucoma, angle-closure glaucoma, secondary glaucomas.					
18. **Neuro-ophthalmology:** Examination methods, diagnostics, pupillary reactions, pathological changes in the pupil, papilledema, papilla stagnans, optic neuritis, ischemic neuro-opticopathy, optic disc atrophy, lesions of the visual pathway.					
19. **Refraction of the Eye:** Testing visual acuity for distance and near, contrast sensitivity, refractometry, skiascopy, emmetropia, myopia, hypermetropia,					

astigmatism, presbyopia, prescription of eyeglasses, contact lenses.		■			
20. **Strabismus:** Examination methods, diagnostics, synoptophore, binocular vision, heterophoria, concomitant strabismus.		■			
21. **Strabismus:** Paralytic strabismus, diplopia, nystagmus, amblyopia – diagnostic methods and treatment.		■			
22. **Eye Injuries:** Causative factors, burns, contusion of the eyeball, penetrating eye injuries, intraocular foreign body, rupture of the eyeball.		■			
23. Testing Visual Acuity for Distance and Near, Pupillary Distance, Trial Lenses, Color Vision – Testing with Pseudoisochromatic Plates.			■		
24. Examination in focal illumination, digital tonometry, fluorescein test, ectropion of eyelids, corneal sensitivity testing, pupillary reactions, confrontation perimetry.				■	
25. Applanation tonometry, keratometry, exophthalmometry, examination of the anterior chamber, iris examination, lens examination, vitreous body examination, examination of the iridocorneal angle.		■			
26. Fundus examination, contact and non-contact stereobiomicroscopic ophthalmoscopy.		■			
27. Ultrasound diagnostics in ophthalmology, ultrasound biometry, computerized perimetry.		■			
28. Fluorescein angiography, autofluorescence of the fundus, optical coherence tomography.		■			
29. Confocal scanning laser ophthalmoscopy, pachymetry, provocative tests for glaucoma.		■			
30. Electroretinography, electrooculography, visual evoked potentials.		■			
31. Laser and surgical interventions in ophthalmology.	■				
32. Urgent conditions in ophthalmology – diagnostics and primary therapeutic actions within the scope of medical			■		

doctor responsibilities for individual conditions: a. Burns (kauzome): Irrigation of the conjunctival sac and referral to an ophthalmologist for further care. b. Removal of foreign bodies from the conjunctiva: Prescribing local ophthalmological therapy in the form of antibiotic ointment and critical assessment for further referral to an ophthalmologist. c. Recognition of the clinical picture of acute angle closure (history, examination of the anterior segment in focal light, assessment of pupil width and its response to light, digital tonometry): Prescribing systemic antiglaucoma therapy and referring to an ophthalmologist. d. Knowledge of diagnostic protocols in cases of open eye trauma with or without suspicion of intraocular foreign bodies (X-ray, CT orbit): Prescribing systemic antibiotics, anti-inflammatory therapy, and tetanus prophylaxis, and referring to an ophthalmologist. e. Acute deep vision loss: Checking visual acuity by testing light perception and projection, and referring to an ophthalmologist for further evaluation.					
33. Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Otorhinolaryngology with Maxillofacial Surgery	VI	XI	30

	Skills	The level of competence				Assistant/Associate's Signature
		A	**B**	**C**	**D**	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Taking ENT medical history: workplace, light source, medical history					
3.	Inspection, palpation, and percussion of the ear					
4.	Otoscopy and otomicroscopy (examination of the tympanic membrane under a microscope)					
5.	Ear cleaning, extraction of cerumen and foreign bodies, aspiration, or irrigation with a syringe					
6.	Hearing tests using a tuning fork					
7.	Audio-vestibular evaluation of the patient, subjective and objective tests, tympanometry					
8.	Inspection and palpation of the nasal pyramid and Valleix points on the face					
9.	Anterior rhinoscopy with a Killian speculum and posterior rhinoscopy					
10.	Nasal endoscopy and extraction of foreign bodies from the nasal cavity					
11.	Rhinomanometry, CT/MRI, and X-ray of the paranasal sinuses (PNS)					
12.	Anterior and posterior nasal packing for bleeding control (Belocq method)					
13.	Subjective tests for evaluating the sense of smell					
14.	Inspection and palpation of the lips					
15.	Oropharyngoscopy (examination of the oral cavity and the middle part of the pharynx)					
16.	Biopsy of the mucosa and excision of small lesions with histopathological analysis					

17.	Frenotomy for ankyloglossia (tongue-tie release)					
18.	Incision and drainage of a peritonsillar abscess					
19.	Extraction of foreign bodies from the tonsils, tongue root, and other parts of the oropharynx (e.g., fish bones, seeds, small toys, etc.)					
20.	Inspection and palpation of the neck, larynx, and thyroid gland					
21.	Examination of the larynx and hypopharynx (larynx and lower pharyngeal floor) using a laryngeal mirror Indirect laryngoscopy					
22.	Endovideolaringoskopija					
23.	Stroboscopy and NBI (narrow band imaging)					
24.	Biopsy and extraction of lymph nodes in the neck					
25.	Rehabilitation of patients with voice and speech development disorders, Speech therapist examination and phoniatric rehabilitation					
26.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature:_____

Course title	Year of study	Semester	Number of practical teaching hours
Intensive Care	VI	XI	15

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Cardiopulmonary and cerebral resuscitation					
2.	Maintaining airway patency (intubation)					
3.	Recognizing critically ill patients					
4.	Insertion of central venous catheter and other catheters using the Seldinger technique					
5.	Cardioversion and defibrillation					
6.	Thoracocentesis					
7.	Bronchoscopy					
8.	Paracentesis					
9.	Insertion of nasogastric tube					
10.	Lumbar puncture					
11.	Analgesia and sedation of critically ill patients					
12.	Basic ventilator settings					
13.	Hemodynamic monitoring					
14.	Transport of critically ill patients					
15.	Oxygen therapy					
16.	Non-invasive blood pressure measurement					
17.	Auscultation of the heart and lungs					
18.	Interpretation of acid-base status					
19.	Opening of peripheral venous access					
20.	Insertion of urinary catheter					
21.	Assessment of the level of consciousness					
22.	Monitoring of vital parameters					
23.	Diagnosis, differential diagnosis, and treatment of emergency conditions					
24.	Ethical behavior and patient information: skill in communicating with patients					

	about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Family Medicine	VI	XI	60

Skills	The level of competence				Assistant/Associate's Signature
	A	B	C	D	
1. Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2. Teamwork in family medicine, family doctor as a "gatekeeper", patient-oriented clinical methods					
3. Medical documentation management in family medicine (patient-oriented medical record, "SOAP" model)					
4. Communication skills (BATHE and SOFTEN techniques) and delivering bad news					
5. Prescribing prescriptions and rational use of medications					
6. Using clinical guidelines in family medicine practice (*Evidence-based medicine*)					
7. Use of medical equipment and doctor's bag in family medicine					
8. Anthropometric measurement (calculating body mass index and measuring waist circumference)					
9. Breast physical examination (MODEL)					
10. Digital rectal examination of the prostate (MODEL)					
11. Creating annual plans and conducting preventive exams in the family medicine practice, according to the Mass Non-Communicable Diseases Prevention Program in the Republic of Srpska					
12. Procedures for smoking cessation					
13. Dosage of analgesics according to the pain scale and its use in family medicine practice (palliative care)					
14. Assessment of vital signs (temperature, pulse, respiration, blood pressure) and					

physical examination of the head and neck					
15. Ear examination (MODEL)					
16. Physical examination of the cardiovascular system					
17. Techniques for proper blood pressure measurement in the family medicine office					
18. Using SCORE tables to calculate overall cardiovascular risk and interpreting EKG results and other diagnostic findings					
19. Basic cardiopulmonary resuscitation (MODEL FOR ADULT MALE, FEMALE, AND CHILD)					
20. Physical examination of the respiratory system, preparation and administration of inhalation therapy in the family medicine clinic					
21. Use of peak flow meters and devices for medication administration via inhalation (metered-dose inhaler, discus, volumatik, babyhaler)					
22. Physical examination of the abdomen and gynecological examination (MODEL)					
23. Physical examination of the musculoskeletal system, knee, ankle, and foot (Ottawa rules)					
24. Initial wound treatment (HAND MODEL)					
25. Selection of diagnostic tests in family medicine					
26. Examination of the diabetic foot (palpation of peripheral pulses, reflex testing, vibratory sensation with tuning fork, and superficial sensation with Semmes-Weinstein monofilament)					
27. Handling of glucometer and test strips (measuring blood glucose from capillary blood), use of insulin pens, insulin administration					
28. Neurological examination (Dix-Hallpike test, Epley maneuver, Brandt-Daroff exercises) and assessment of mental status, depression, and suicidality					
29. Components of the pediatric physical examination (observation, palpation, auscultation), assessment of					

neurological status, oral cavity, and ear examination in children					
30. Measurement of height/length and body weight, and assessment of nutritional status in children using growth curves, calculation of the streptococcal score for quick assessment of pharyngitis etiology					
31. Application of Beers, STOPP, START, and other accepted criteria in prescribing medications for older adults, assessment of fall risk in the elderly					
32. Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Occupational Medicine	V	IX	15

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Taking occupational anamnesis					
3.	Physical examination in occupational medicine					
4.	Vision screening in occupational medicine – orthoptics, interpretation of findings					
5.	Hearing examination in occupational medicine, audiometry, interpretation of findings					
6.	ECG in occupational medicine, interpretation of findings					
7.	Spirometry in occupational medicine, interpretation of findings					
8.	Measurement of microclimatic conditions in the workplace					
9.	Measurement of dust levels and lighting in the workplace					
10.	Measurement of noise and vibrations in the workplace					
11.	Analysis of chemical hazards in the workplace					
12.	Analysis of biological hazards in the workplace					
13.	Expert evaluation of work ability, verification of occupational diseases					
14.	Verification of workplace injury, completing the injury report					
15.	Assessment of work ability, general principles and work-related diseases					
16.	Assessment of temporary work incapacity					
17.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Medical Jurisprudence	**VI**	**XI**	**15**

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Recognition of postmortem characteristics and changes					
2.	Examination of the deceased, determination of death, cause, and time of death					
3.	Principles of writing a Death Certificate					
4.	Recognition of vital reactions					
5.	Differentiation between natural and violent health impairments					
6.	Basic principles of forensic autopsy					
7.	Sampling for toxicological analyses					
8.	Collection of blood and urine samples for determining blood alcohol levels in living individuals					
9.	Qualification of bodily injuries					
10.	Essence of medical malpractice and negligent treatment					
11.	Basic principles of expert evaluation in criminal and civil proceedings					
12.	Examination of victims of sexual violence and securing evidence					
13.	Differential diagnosis of accidents, suicides, and homicides					
14.	Principles of identifying living individuals					
15.	Ethical behavior and information: skill in communicating; skills in communicating with other medical professionals.					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Oncology with radiotherapy	V	X	30

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.				■	
2.	Taking the medical history of an oncology patient.				■	
3.	General status of the oncology patient, examination of individual body parts and internal organs.				■	
4.	Understanding the biology of malignant tumors. Understanding the cell cycle, the role of oncogenes, and tumor immunology.			■		
5.	Acquiring knowledge about epidemiological factors and disease descriptors.			■		
6.	Understanding the value of prevention and distinguishing between primary, secondary, and tertiary prevention.				■	
7.	Determining the TNM stage of the disease through examples.				■	
8.	Participation in multidisciplinary meetings.			■		
9.	Application of cytostatics – protocols, administration, methods of delivery – various venous approaches.	■				
10.	Abdominal puncture – diagnostic and therapeutic.		■			
11.	Application of biological therapy.		■			
12.	Application of immunotherapy		■			
13.	Recognition and management of emergency conditions in oncology.				■	
14.	Examination of patients before starting radiotherapy.		■			
15.	Management of patients with complications from oncological treatment.			■		

16.	Treatment of acute and chronic cancer pain.					
17.	Examination and care of patients undergoing palliative care.					
18.	Preparation of a patient case presentation.					
19.	Writing a scientific paper in oncology.					
20.	Targeted medical history taking according to the localization of the oncological disease.					
21.	Targeted examination according to the localization of the disease.					
22.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Emergency Medicine	**VI**	**XI**	**30 (15 x 2 hours)**

	Skills	The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Performing triage for emergency patients, determining urgency levels					
3.	Performing Advanced Life Support (ALS) cardiopulmonary resuscitation in adults – applying the algorithm on mannequin models					
4.	Performing Advanced Life Support (ALS) cardiopulmonary resuscitation in children – applying the algorithm on mannequin models					
5.	Conducting out-of-hospital delivery on mannequin models, including twin pregnancy simulations					
6.	Analyzing common EKG rhythms using examples from emergency cases					
7.	Approach and initial management of common urgent conditions: ACS, cardiac arrhythmias, pulmonary edema, pulmonary embolism, hypertensive crisis, blood glucose imbalances, consciousness crises, allergic reactions, etc.					
8.	Approach and initial management of common urgent conditions in surgical patients: acute abdomen, retention, ileus, renal and biliary colic, urinary infections, etc.					
9.	Approach and initial management of common urgent conditions in children: febrile conditions, febrile convulsions, acute respiratory infections (upper and lower airways), acute abdomen, hypoglycemia, allergic reactions					
10.	Principles of polytrauma: primary and secondary care					

11.	Management of head, chest, abdominal, and pelvic injuries using standard immobilization devices					
12.	Management of common accidental conditions: drowning, heatstroke, electric shock, lightning strike, etc.					
13.	Management of intoxications – gastric lavage					
14.	Use and handling of ventilators during transport					
15.	Use and handling of suction devices during transport					
16.	Administration of emergency medicine drugs and methods of application					
17.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Clinical residence (Obstetrics and Gynaecology)	VI	XII	50

	Skills	The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.				■	
2.	Anamnesis; General physical examination; Inspection and palpation of external genital organs; Gynecological bimanual examination; Examination using vaginal speculum; Rectal examination; Breast examination; Collection of cervical cytology smears (Papanicolaou test); Collection of vaginal and cervical swabs, HPV typing			■		
3.	Asepsis and antisepsis (surgical hand washing, donning sterile gloves, complete surgical gowning)			■		
4.	Basics of colposcopy		■			
5.	Diagnostic and therapeutic procedures for cervical diseases (cervical biopsy, polypectomy, cervical electrocoagulation, LOOP, conization); Surgical treatment of tumor lesions of the perineum, vulva, and vagina		■			
6.	Dressing and care of postoperative wounds, extirpation of intraabdominal drain			■		
7.	Diagnostic and therapeutic procedures – basics of uterine curettage, fractional exploratory curettage, hysteroscopy		■			
8.	Medication-induced termination of unwanted pregnancy; Assisting in instrumental termination of unwanted pregnancy; Medically indicated medication-induced abortion		■			
9.	Basics of gynecological surgery: laparotomies, vaginal surgeries, laparoscopic surgeries (preparing the		■			

	patient for surgery, preoperative prophylaxis, postoperative care)					
10.	Basics of ultrasound diagnostics in gynecology (ultrasound examination)					
11.	Basics of ultrasound diagnostics in pregnancy (ultrasound examination)					
12.	Prenatal diagnostics (non-invasive and invasive)					
13.	Cerclage (cervical stitch): indications, contraindications, application					
14.	Diagnostic and therapeutic procedures for ovarian hyperstimulation syndrome (OHSS); Diagnostic and therapeutic procedures for ectopic pregnancy					
15.	Anamnesis of the pregnant woman, bimanual examination of the pregnant woman; Examination using vaginal speculum, Collection of cervical swabs, collection and analysis of tests for premature rupture of membranes (test for leakage of amniotic fluid); Collection of rectovaginal swabs for beta-hemolytic streptococcus; External examination of the pregnant woman: (Leopold-Pavlik's maneuvers), measuring the pelvic dimensions with a pelvimeter, measuring the height of the uterine fundus					
16.	Cardiotocography (indications, procedure, interpretation)					
17.	Amnioscopy; Oxytocin test					
18.	Examination of the pregnant woman in the delivery room: measuring blood pressure, pulse; external examination of the pregnant woman, obstetric examination (assessment of cervical maturity, dilation, presentation, position, and fetal habitus), verification and auscultation of fetal heart tones (fetal heart rate)					
19.	Induction of labor					
20.	Artificial rupture of fetal membranes; Assisted vaginal delivery in cephalic presentation (clamping the umbilical cord, receiving the newborn); Conditions for administering epidural analgesia					
21.	Support during delivery in breech presentation and twin births (vaginal delivery)					

22.	Third stage of labor procedures (delivery of the placenta): manual spontaneous detachment of the placenta, separation and extraction of an adherent placenta, manual/instrumental revision of the uterine cavity					
23.	Episiotomy and assisting in the management of episiotomy (suturing); Local anesthesia of the perineum and episiotomy; Pudendal block – anesthesia; Revision and suturing of the soft birth canal					
24.	Postpartum examination of the uterine fundus height, monitoring of the general condition and vital parameters of the mother; Assessment of blood loss during and after delivery					
25.	Postpartum examination (puerperium); Lactation					
26.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Course Supervisor/Department Chair's Signature: _____

Course title	Year of study	Semester	Number of practical teaching hours
Clinical Residence (Internal Medicine)	**VI**	**XII**	**75** (100)

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Collection of capillary blood					
3.	Collection of arterial blood					
4.	Collection of venous blood					
5.	Placement of peripheral venous access					
6.	Placement of central venous catheter					
7.	Collection of blood culture					
8.	Collection of urine culture					
9.	Placement of urinary catheter					
10.	Placement of nasogastric tube					
11.	Maintaining temperature chart					
12.	Maintaining written and electronic medical records					
13.	Planning diagnostic procedures					
14.	Attending morning rounds and writing daily progress notes					
15.	Parenteral administration of medications – subcutaneous injection					
16.	Parenteral administration of medications – intramuscular injection					
17.	Parenteral administration of medications – intravenous injection					
18.	Taking patient history for those with cardiovascular conditions					
19.	Physical examination of patients with cardiovascular conditions					
20.	Electrocardiogram (EKG) – recording					

21.	Electrocardiogram (EKG) – interpretation of findings					
22.	Transthoracic and transesophageal echocardiography					
23.	Ergometry					
24.	Pacemaker implantation					
25.	Interventional cardiology – pericardiocentesis					
26.	Interventional cardiology – coronary angiography					
27.	Cardioversion					
28.	Recognition and management of urgent conditions in cardiology – pulmonary edema, hypertensive crisis, acute coronary syndrome, aortic dissection, arrhythmias, pulmonary thromboembolism					
29.	Taking patient history in the gastroenterology and hepatology department					
30.	Physical examination in gastroenterology and hepatology					
31.	Digital rectal examination					
32.	Abdominal puncture					
33.	Jaundice – diagnostic and therapeutic approach					
34.	Abdominal ultrasound (US)					
35.	Esophagogastroduodenoscopy (EGD)					
36.	Colonoscopy					
37.	Recognition and management of urgent conditions in gastroenterology and hepatology – gastrointestinal bleeding, acute hepatitis, hepatic encephalopathy and hepatic coma, acute pancreatitis					
38.	Taking patient history for pulmonary patients					
39.	Clinical examination of pulmonary patients					
40.	Assessment of respiratory status of the patient					
41.	Interpretation of ASTUP results					
42.	Oxygen therapy					

43.	Airway management – placement of airway (oropharyngeal tube)					
44.	Airway management – nasotracheal suctioning					
45.	Endotracheal suctioning					
46.	Non-invasive mechanical ventilation					
47.	Invasive mechanical ventilation					
48.	Tracheostomy tube					
49.	Spirometry					
50.	Body plethysmography					
51.	Diffusion capacity					
52.	Bronchoscopy					
53.	Ultrasound of the pleural space					
54.	Pleural puncture					
55.	Recognition and management of urgent conditions in pulmonology – acute respiratory failure, status asthmaticus, COPD exacerbation, superior vena cava syndrome, massive hemoptysis, foreign body in the bronchus					
56.	Taking patient history for endocrinology patients					
57.	Clinical examination of endocrinology patients					
58.	Electrolyte imbalance – interpretation of results, therapeutic approach					
59.	Diagnostic approach and monitoring of diabetes mellitus					
60.	Acute complications of diabetes mellitus					
61.	Chronic complications of diabetes mellitus					
62.	Oral glucose tolerance test					
63.	Recognition and management of urgent conditions in endocrinology					
64.	Taking patient history for rheumatology patients					
65.	Clinical examination of rheumatology patients					

66.	Allergic reactions and anaphylactic shock – recognition, therapeutic approach					
67.	Taking patient history for nephrology patients					
68.	Clinical examination of nephrology patients					
69.	Acute and chronic renal insufficiency					
70.	Hemodialysis – visit to the hemodialysis center and monitoring of hemodialysis treatment					
71.	Urgent conditions in nephrology					
72.	Taking patient history for hematology patients					
73.	Clinical examination of hematology patients					
74.	Peripheral blood smear					
75.	Bone marrow biopsy					
76.	Urgent conditions in hematology					
77.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Signature of the Course Supervisor/Head of the Department: _____

Course title	Year of study	Semester	Number of practical teaching hours
Clinical Residence (Surgery)	VI	XII	100

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Medical history, physical examination of a surgical patient					
3.	Wound care: procedure for clean wounds					
4.	Wound care: procedure for "dirty" wounds					
5.	Suturing a wound, tying knots, surgical knots					
6.	Dressing and aseptic dressing change					
7.	Removing sutures and clips					
8.	Preparation for entry into the operating room					
9.	Hand washing, wearing a gown and gloves, movement in the operating room					
10.	Assessment of healing of the surgical incision					
11.	Palpation of peripheral arteries, Application of elastic bandage					
12.	Digital rectal examination					
13.	Techniques for bleeding control (digital pressure, local pressure, tamponade, stitching, suturing)					
14.	Examination of the general condition of the musculoskeletal, digestive, respiratory, and urinary systems					
15.	Diagnosis and differential diagnosis of acute conditions in surgery					
16.	Treatment of the most common acute conditions in surgery					
17.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Signature of the Course Supervisor/Head of the Department: _____

Course title	Year of study	Semester	Number of practical teaching hours
Clinical Residence (Pediatrics)	VI	XII	50

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Procedure for managing a critically ill child					
3.	Resuscitation according to age					
4.	Management of acute poisoning Management of airway obstruction caused by a foreign body					
5.	Intubation of a child					
6.	Therapy for status epilepticus and treatment of febrile seizures					
7.	Characteristics of transfusion therapy in pediatrics – indications and administration					
8.	Intravenous therapy					
9.	Dehydration treatment					
10.	Treatment of acute laryngitis and asthma attacks					
11.	Assessment of psychomotor development in children					
12.	Interpretation of laboratory results					
13.	Interpretation of chest X-rays in children with pulmonary diseases					
14.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Signature of the Course Supervisor/Head of the Department: _____

Course title	Year of study	Semester	Number of practical teaching hours
Clinical Residence (Emergency Medicine)	**VI**	**XII**	**50**

Skills		The level of competence				Assistant/Associate's Signature
		A	B	C	D	
1.	Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2.	Outpatient work under mentor supervision: Approach to emergency patients, taking focused history, conducting examinations, establishing differential and working diagnoses					
3.	Performing cardiopulmonary resuscitation (CPR) in the clinic – Resuscitation room and on-site for adults and children following the BLS algorithm					
4.	Performing advanced cardiopulmonary resuscitation in the clinic – resuscitation room and on-site for adults and children following the ALS algorithm					
5.	Executing practical resuscitation skills: Airway management, use of Ambu Bag, endotracheal intubation, and placement of I-gel mask					
6.	Performing defibrillation procedures for adults and children using manual defibrillators					
7.	Application and Administration of Medications via Parenteral Routes: intramuscularly, intravenously; insertion of intravenous catheters (Braunile), Initiation of infusion, and administration of infusion solutions					
8.	Insertion of urinary catheters and bladder catheterization in men and women					
9.	Use of manual and electric suction devices, performing aspiration procedures using suction catheters					
10.	Use of Pulse Oximeters, Glucometers; Blood sampling from veins for urgent					

	laboratory parameters analysis (e.g., D-Dimer, Troponin T)					
11.	Analysis of vital function parameters on vital sign monitors; Recording and interpretation of ECG traces for emergency and urgent patients					
12.	Use of inhalers and administration of medications via inhalers for upper airway obstruction					
13.	Wound care and suturing of small and large wounds; work in minor surgery rooms					
14.	Burn care and treatment, debridement, and bandaging					
15.	Application and placement of immobilization splints for injuries in trauma and polytrauma; hemorrhage control and shock prevention					
16.	Fieldwork in ambulance vehicles: handling ambulance equipment, operating portable ventilators, managing transport positions, and transporting critically ill patients					
17.	Diagnosis, differential diagnosis, and treatment of emergency conditions					

Signature of the Course Supervisor/Head of the Department: _____

Course title	Year of study	Semester	Number of practical teaching hours
Clinical Residence (Family Medicine)	VI	XII	100

Skills	The level of competence				Assistant/Associate's Signature
	A	B	C	D	
1. Ethical behavior and patient information: skill in communicating with patients about planned procedures, risks, and benefits, assisting in decision-making; skill in communicating with other medical professionals.					
2. Physical examination of the cardiovascular system					
3. Techniques for accurate blood pressure measurement in a family medicine practice					
4. Use of SCORE tables to calculate total cardiovascular risk and interpretation of ECG findings and other diagnostic results					
5. Basic cardiopulmonary resuscitation (MODEL: adult male, female, and child)					
6. Physical examination of the respiratory system, preparation, and administration of inhalation therapy in a family medicine practice					
7. Use of peak expiratory flow meters and devices for administering inhaled medications (metered-dose inhalers, Diskus, Volumatic, Babyhaler)					
8. Physical examination of the abdomen and gynecological examination (MODEL)					
9. Physical examination of the musculoskeletal system, including the knee, ankle, and foot (Ottawa rules)					
10. Selection of diagnostic tests in family medicine					
11. Examination of the diabetic foot (palpation of peripheral pulses, reflex testing, vibrational sensitivity with a tuning fork, and surface sensitivity with a "Semmes-Weinstein" monofilament)					
12. Handling of glucometers and test strips (measuring capillary blood glucose), use of insulin pens, and insulin administration					

13. Neurological examination (Dix-Hallpike test, Epley maneuver, Brandt-Daroff exercises) and assessment of mental status, depression, and suicidality					
14. Components of physical examination of a child (observation, listening, palpation, auscultation), neurological status assessment, and examination of the oral cavity and ear					
15. Measurement of height/length and body weight and assessment of nutritional status of a child using growth charts, calculation of streptococcal score for quick evaluation of pharyngitis etiology					
16. Application of Beers, STOPP, START, and other acceptable criteria for prescribing medications in the elderly, assessment of fall risk in older adults					
17. Diagnosis, differential diagnosis, and treatment of emergency conditions					

Signature of the Course Supervisor/Head of the Department: _____