

EUROPEAN MEDICAL UNIVERSITY

SYLLABUS OF THE EDUCATIONAL DISCIPLINE "INFECTIOUS DISEASES"

Cycle of Higher Education:	second cycle of higher education (Master's degree)
Field of Study:	22 «Healthcare»
Specialty:	222 «Medicine»
Educational qualification:	Master of Medicine
Professional qualification:	doctor

1. Status and structure of the discipline

Discipline status	Mandatory
Code of the discipline in the EPP/place of the discipline in the EPP	EC 28, professional training discipline
Course/semester	5th-6th year (10th, 11th (12th) semesters),
Scope of the discipline (total number of hours/number of ECTS credits)	150 hours / 5 ECTS credits
Number of modules	2
Number of content modules	9
Structure of the discipline	Semester 10 Lectures 8 hours Practical classes 32 hours Independent work 20 hours 11 (12)th semester Practical classes 90 hours Independent work 50 hours
Education language	English
Form of study	Full-time
Type of final check	Exam

2. Description of the discipline

Brief summary of the course, relevance: Infectious Diseases is an academic discipline that gives an idea of infectious pathologies, forms future doctors' clinical thinking, practical skills that ensure timely diagnosis of infectious diseases and their complications, rational treatment, and the choice of optimal tactics in case of emergency care.

Prerequisites: Infectious Diseases as an academic discipline is based on the knowledge acquired by students in the following disciplines: medical and biological physics, morphological disciplines, microbiology, virology and immunology, physiology, pathophysiology, internal diseases, surgery, neurology, dermatology, epidemiology, ophthalmology, otolaryngology, endocrinology, clinical pharmacology, resuscitation and integrates with these disciplines.

Purpose of the course and its significance for professional activity: The purpose of teaching the discipline "Infectious Diseases" is to study, form and assimilate the necessary theoretical knowledge and practical skills for training a midwife Junior Bachelor who has clinical thinking, is able to establish a preliminary clinical diagnosis, perform doctor's appointments, provide emergency care for acute conditions, organize and conduct preventive and anti-epidemic measures.

Postrequisites: in the course of training, the student masters the following: the basic principles of organizing care for infectious patients; clinical-laboratory and additional methods of diagnosis of infectious pathology; understanding of etiology, pathogenesis, clinic, diagnosis and methods of treatment of infectious diseases (within the curriculum); knowledge of etiological, pathogenetic factors, clinical manifestations and diagnosis of emergency conditions; the basics of conducting the main methods of general clinical examination of the patient (survey, examination, palpation, auscultation), determining the scope of additional research and analysis of the data obtained to establish a preliminary diagnosis; skills to perform general medical manipulations (injections, gastric lavage, etc.); knowledge of providing emergency care for shock, coma, allergic reactions, asphyxia, keeping medical records.

3. Learning outcomes.

Program learning outcomes (PLO) correspond to the codes PLO 1 - PLO 10, PLO 13, PLO 16 – PLO 29.

PLO 1	Have a thorough knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integrating knowledge. Be responsible for professional development, the ability to further professional training with a high level of autonomy.
PLO 2	Understanding and knowledge of fundamental and clinical biomedical sciences at a level sufficient to solve professional problems in the field of healthcare.
PLO 3	Specialized conceptual knowledge that includes scientific achievements in the field of healthcare and is the basis for conducting research, critical understanding of problems in the field of Medicine and related interdisciplinary problems.
PLO 4	Identifying leading clinical symptoms and syndromes (according to list 1); according to standard methods, using preliminary data of the patient's medical history, patient examination data, knowledge about the person, his organs and systems, establishing a preliminary clinical diagnosis of the disease (according to list 2).
PLO 5	Collecting complaints, life history and diseases, evaluate the patient's psychomotor and physical development, the state of organs and systems of the body, based on the results of laboratory and instrumental studies, evaluating information about the diagnosis (according to list 4), considering the patient's age
PLO 6	Establishing the final clinical diagnosis by making a justified decision and analysing the obtained subjective and objective data of the clinical, additional examination, conducting differential diagnosis, observing the relevant ethical and legal regulations, under the supervision of the head doctor in the conditions of a health care institution (according to list 2).
PLO 7	Prescribing and analysing additional (mandatory and optional) examination methods (laboratory, functional and/or instrumental) (according to list 4), patients with diseases of organs and body systems for differential diagnosis of diseases (according to list 2).

PLO 8	Determining the main clinical syndrome or the cause of the severity of the victim's condition (according to list 3) by making a justified decision and assessing the person's condition under any circumstances (in the conditions of a health care institution, outside it), including in an emergency situation and combat operations, in the field, in conditions of lack of information and limited time.
PLO 9	Determining the nature and principles of treatment of patients (conservative, operative) with diseases (according to list 2), taking into account the age of the patient, in the conditions of a health care institution, outside it and at the stages of medical evacuation, including in the field, on the basis of a preliminary clinical diagnosis, adhering to appropriate ethical and legal norms, by making a justified decision according to existing algorithms and standard schemes, if necessary, expand the standard scheme to be able to justify personalized recommendations under the supervision of a doctor-manager in a medical institution
PLO 10	Determining the necessary mode of work, rest and nutrition based on the final clinical diagnosis, adhering to appropriate ethical and legal regulations, by making a justified decision according to existing algorithms and standard schemes.
PLO 13	Conducting assessment and monitoring of the child's development, providing recommendations on feeding and nutrition characteristics depending on age, organizing preventive vaccinations according to the schedule.
PLO 16	Forming rational medical routes of patients; organizing interaction with colleagues in their own and other institutions and organizations; applying tools for promoting medical services in the market based on the analysis of the needs of the population in the conditions of functioning of a health care institution, its department, in a competitive environment.
PLO 17	Making medical manipulations (according to list 5) in a medical institution, at home or at work on the basis of a preliminary clinical diagnosis and / or indicators of the patient's condition by making a justified decision, while observing appropriate ethical and legal regulations.
PLO 18	Determining the state of functioning and limitations of a person's life activity and the duration of disability with the registration of relevant documents, in the conditions of a health care institution based on data on the disease and its course, features of a person's professional activity, and so on. Maintaining medical documentation regarding the patient and the population on the basis of regulatory documents.
PLO 19	Planning and implementing a system of anti-epidemic and preventive measures for the occurrence and spread of diseases among the population.
PLO 20	Analyzing the epidemiological state and implementing measures of mass and individual, general and local prevention of infectious diseases
PLO 21	Searching for the necessary information in professional literature and databases of other sources, analyzing, evaluating and applying this information
PLO 22	Applying up-to-date digital technologies, specialized software, and statistical methods of data analysis to solve complex healthcare problems
PLO 23	Assessing impact of the environment on human health to assess the state of morbidity in the population.

PLO 24	Providing the necessary level of individual safety (your own and those you care about) in case of typical dangerous situations in the individual field of activity.
PLO 25	Clearly and unambiguously deliver own knowledge, conclusions and arguments on health issues and related issues to specialists and non-specialists
PLO 26	Managing work processes in the healthcare sector that are complex, unpredictable and require new strategic approaches, organizing the work and professional development of personnel considering the acquired skills of effective teamwork, leadership positions, proper quality, accessibility and fairness, ensuring provision of integrated medical care.
PLO 27	Communicating fluently in Ukrainian and English, both orally and in writing, to discuss professional activities, research and projects.
PLO 28	Making effective decisions on health issues, evaluate the necessary resources, and take into account social, economic, and ethical consequences.
PLO 29	Planning, organizing and carrying out measures for specific prevention of infectious diseases, including according to the national schedule of preventive vaccinations, both mandatory and recommended. Managing vaccine residues, organizing additional vaccination campaigns, including immunoprophylaxis measures.

Learning outcomes for the discipline:

Mastering the discipline ensures that applicants acquire the following competencies:

integral: the ability to solve complex tasks and problems in the field of healthcare in the specialty "Medicine" in professional activity or in the course of training, which involves research and/or innovation and is characterized by uncertainty of conditions and requirements; general competencies (GC): according to codes GC 1, GC 2, GC 3, GC 4, GC 6, GC 7, GC 8, GC 10, GC 11, GC 12, GC 13, GC 14, GC 15.

Code	Characteristics of general competence
GC 1	Ability to think abstractly, analyze and synthesize
GC 2	Ability to learn and master up-to-date knowledge
GC 3	Ability to apply knowledge in practical situations
GC 4	Knowledge and understanding of the subject area and understanding of professional activities
GC 5	Ability to adapt and act in a new situation
GC 6	Ability to make justified decisions
GC 7	Ability to work in a team
GC 8	Ability for interpersonal interaction
GC 10	Ability to use information and communication technologies
GC 11	Ability to search, process and analyze information from various sources
GC 12	Certainty and perseverance in relation to the tasks set and responsibilities assumed
GC 13	Awareness of equal opportunities and gender issues
GC 14	Ability to exercise rights and obligations as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine

GC 15	The ability to preserve and increase the moral, cultural, scientific values and achievements of society based on understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society and technology, to use various types and forms of motor activity for active recreation and having healthy lifestyle.
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Special (professional) competencies (PC): according to the codes PC1, PC2, PC3, PC 4, PC 5, PC 6, PC 7, PC 8, PC 9, PC 10, PC 12, PC 13, PC 14, PC 15, PC 17, PC 18, PC 19, PC 20, PC 21, PC 22, PC 23, PC 24, PC 25.

Code	Characteristics of special competence
PC 1	Ability to collect medical information about a patient and analyze clinical data
PC 2	Ability to determine the necessary list of laboratory and instrumental studies and evaluate their results
PC 3	Ability to define preliminary and clinical diagnosis of the disease
PC 4	Ability to determine the necessary mode of work and rest in the treatment of diseases.
PC 5	Ability to determine the nature of nutrition in the treatment of diseases
PC 6	Ability to determine the principles and nature of treatment of diseases
PC 7	Ability to diagnose emergency conditions
PC 8	Ability to determine tactics and provide emergency medical care
PC 9	Ability to carry out medical and evacuation measures
PC 10	Ability to perform medical manipulations
PC 11	Ability to solve medical problems in new or unfamiliar environments in case of incomplete or limited information considering aspects of social and ethical responsibility
PC 12	Ability to determine the tactics of managing physiological pregnancy, physiological childbirth, and the postpartum period. Skills in advising on family planning and choosing a method of contraception
PC 13	Ability to carry out sanitary & hygienic and preventive measures
PC 14	Ability to plan and carry out preventive and anti-epidemic measures against infectious diseases
PC 15	Ability to provide expert examination of working capacity
PC 16	Ability to maintain medical records, including electronic forms
PC 17	Ability to assess impact of the environment, social&economic and biological determinants on the health status of an individual, family, or population
PC 18	Ability to analyze the activities of a doctor, department, or healthcare institution, ensure quality of medical care, and improve efficiency of using medical resources
PC 19	Ability to organize and integrate provision of medical care to the population and conduct marketing of medical services
PC 20	Ability to conduct epidemiological and medical-statistical studies of public health; processing social, economic and medical information
PC 21	Clearly and unambiguously deliver own knowledge, conclusions and arguments on health issues and related issues to specialists and non-specialists, in particular to students

PC 22	Ability to manage health care workflows that are complex, unpredictable, and require new strategic approaches
PC 23	Ability to develop and implement scientific and applied projects in the healthcare sector
PC 24	Compliance with ethical principles when working with patients and laboratory animals
PC 25	Compliance with professional and academic integrity, being responsible for reliability of the obtained scientific results

4. Content and logistics of the discipline.

Module 1: "Infectious Diseases"	Semester 10	Lectures 1-10 Practical classes: No. 1-16 Independent work topics: No. 1-16
Module 2: "Infectious Diseases"	11 (12)th semester	Practical classes: No. 17-26 Independent work topics: No. 17-25

The discipline includes:

10 lecture topics

26 practical classes topics

25 independent work topics

List of lecture topics by modules

Module 1 "Infectious Diseases"

- Topic 1 Introduction to the course of infectology, the concept of infectious diseases. Features of infectious diseases. Classification. Principles of diagnosis, treatment, and prevention.
- Topic 2 General characteristics of infectious diseases with a fecal-oral transmission mechanism. Typhoid fever. Paratyphoid A and B.
- Topic 3 Diarrheal syndrome in the clinic of infectious diseases. Pathogenesis and clinical features. Principles of treatment of dehydration shock.
- Topic 4 General characteristics of the group of infectious diseases with an airborne transmission mechanism - influenza.
- Topic 5 Diphtheria. Differential diagnosis of sore throat.
- Topic 6 Meningeal syndrome in the clinic of infectious diseases. Differential diagnosis of serous and purulent meningitis. Swelling of the brain.
- Topic 7 Viral hepatitis.
- Topic 8 TMJ-associated infections and infestations,
- Topic 9 Lyme disease
- Topic 10 Infectious diseases with damage to the nervous system: rabies, tetanus

List of topics of practical/clinical classes according to modules and content modules

Module 1 "Infectious Diseases"

Content module 1

"Introduction to infectology. Infectious diseases with a fecal-oral transmission mechanism"

- Topic 1. Introduction to the course of infectology - immunoprophylaxis of infectious diseases. General characteristics of the group of infectious diseases with a fecal-oral transmission mechanism. Typhoid fever. Paratyphoid A and B.
- Topic 2. Diarrheal syndrome in the clinic of infectious diseases. Cholera. Salmonellosis. Food toxicoinfections. Intestinal yersiniosis. Listeriosis. Infectious diseases of viral etiology with a predominantly fecal-oral transmission mechanism. Rotavirus gastroenteritis.
- Topic 3. Intestinal infectious diseases with a predominant lesion of the colon, shigellosis. Protozoal intestinal infestations: amoebiasis, giardiasis. Nematodoses. Cestodoses. Flukes.
- Topic 4. Food intoxications of microbial origin: staphylococcal intoxication, botulism. Emergency conditions in patients with infectious diseases with a fecal-oral transmission mechanism.

Content module 2

"Infectious diseases with an airborne transmission mechanism"

- Topic 5. General characteristics of the group of infectious diseases with an airborne transmission mechanism. Flu. Other ARVI: parainfluenza, adenovirus disease, RS infection, rhinovirus disease. Infectious diseases that occur with the SARS clinic: respiratory mycoplasmosis, ornithosis, legionellosis.
- Topic 6. Herpesvirus infections. Infectious mononucleosis. Emergency conditions in patients with infectious diseases with an airborne transmission mechanism.
- Topic 7. "Children's" drip infectious diseases in adults. Diphtheria. Differential diagnosis of sore throat.
- Topic 8. Meningeal syndrome in the clinic of infectious diseases. Differential diagnosis for serous and purulent meningitis. Meningococcal disease. Emergency conditions: swelling of the brain, infectious and toxic shock, thrombo-hemorrhagic syndrome.

Content module 3

"Viral hepatitis. HIV infection"

- Topic 9. General characteristics of viral hepatitis. Viral hepatitis with a fecal-oral transmission mechanism. Acute viral hepatitis with parenteral transmission mechanism. Laboratory diagnostics of viral hepatitis. Treatment tactics of acute viral hepatitis. Chronic viral hepatitis B, C, H
- Topic 10. HIV infection. AIDS-associated infections and infestations.

Content module 4

"Infectious diseases with a transmissible transmission mechanism"

- Topic 11. General characteristics of infectious diseases with a transmissible transmission mechanism. Malaria. Leishmaniasis. Prolonged fever syndrome of unknown origin. Brucellosis. Sepsis.
- Topic 12. Vector-borne diseases transmitted through tick bites: tick-borne encephalitis, Lyme disease. Rickettsiosis.

Content module 5

"Infectious diseases with wound and multiple transmission mechanisms"

- Topic 13. Infectious diseases with predominant kidney damage: leptospirosis, HHNS. Hemorrhagic Congo-Crimean fever.
- Topic 14. Infectious diseases with damage to the nervous system: rabies, tetanus. Infectious diseases with skin damage: erysipelas, erysipeloid, felinosis, rat bite disease.
- Topic 15. TORCH infections: toxoplasmosis; rubella; cytomegalovirus; herpes types 1 and 2. Complications of drug use in the practice of an infectious disease specialist. Antibiotic-associated diarrhea. Nosocomial infections.
- Topic 16. Infectious diseases that are regulated by the International Health Regulations of 2005. The concept of biosafety.

Module 2 "Infectious Diseases"

Content module 1

Diagnosis and treatment of intestinal infections

- Topic 17 The concept of enterotoxigenic and enteroinvasive diarrhea (salmonellosis, food toxicoinfections caused by opportunistic flora, Escherichia coli, cholera, yersiniosis, campylobacteriosis, shigellosis). Differential diagnosis of acute infectious and non-infectious diarrhea (poisoning with fungi, heavy metal salts, acute diseases of the digestive system, gynecological and surgical diseases). Features of differential diagnosis of botulism
- Topic 18 Emergency conditions in acute diarrheal syndrome in infectious practice, their treatment. Differential diagnostics of chronic diarrheal syndrome in the clinic of infectious diseases (amebiasis, balantidiasis, gumbles, intestinal helminthosis - ascaridosis, trichocephalosis, enterobiasis) with chronic diseases of the digestive system. The problem of diagnosis of helminthiasis in Ukraine. Features of the clinical course, diagnosis and differential diagnosis of resonant helminthiasis (trichinosis, strongyloidosis, toxocariasis, opisthorchiasis, hymenolepidosis, teniarinchiasis, teniosis)

Content module 2

Problems of viral hepatitis

- Topic 19 Differential diagnosis of acute viral hepatitis (A, B, C, D, E), the role and use of various diagnostic methods, their assessment. Acute hepatic encephalopathy. Indications for liver transplantation. Features of diagnosis and treatment of lightning-fast forms of viral hepatitis. Features of diagnosis and treatment of chronic forms of viral hepatitis (B, C). Management of patients. Side effects of specific treatment. Prevention of viral hepatitis (general and specific).
- Topic 20 Differential diagnosis of infectious (viral hepatitis, infectious diseases accompanied by jaundice, [leptospirosis, tropical malaria, sepsis, yersiniosis, infectious mononucleosis, parasitic and helminthic liver damage] and non-infectious jaundice (drug-induced, toxic hepatitis, alcoholic liver disease, non-alcoholic steatohepatitis, cholestatic jaundice, suprahepatic jaundice)

Content module 3

Problems of respiratory infections

- Topic 21 Differential diagnosis of acute respiratory syndrome (influenza, parainfluenza, respiratory syncytial infection, adenovirus infection, bacterial lesions). Differential diagnosis of typical and atypical pneumonia (ornithosis, chlamydia, legionellosis, SARS), pulmonary tuberculosis. Respiratory distress syndrome in adults. Modern approaches to pulmonary resuscitation in severe forms of respiratory infections.
- Topic 22 Meningeal syndrome in the clinic of infectious diseases. Differential diagnosis of meningitis and meningoencephalitis. Features of diagnosis of tuberculous meningoencephalitis. Edema-swelling of the brain.
- Topic 23 Differential diagnosis of lesions of the Roto - and nasopharynx, salivary glands (diphtheria, angina, fusospirochetous symbiosis, mumps). Anaphylactic shock and serum sickness in the infectious diseases clinic
- Topic 24 Differential diagnosis of exanthema in the clinic of infectious diseases (typhoid fever, meningococemia, pseudotuberculosis, typhoid fever). Infectious and toxic shock in the clinic of infectious diseases.
- Topic 25 Problems of "children's" infectious diseases in adults that occur with a rash. Infectious diseases of the herpesvirus family, features of diagnosis and treatment.

Content module 4

Differential diagnosis of wound infections

- Topic 26 Differential diagnosis of wound infections (anthrax, rabies, tetanus, erysipelas, felinosis, Sodoku). Emergency prevention of rabies and tetanus.

List of topics for independent work within content modules

Module 1 "Infectious Diseases"

Content module 1

"Introduction to infectology. Infectious diseases with a fecal-oral transmission mechanism"

- Topic 1 Paratyphoid A and B.
- Topic 2 Listeriosis.
- Topic 3 Rhinovirus disease Norfolk-viral infection.
- Topic 4 Helminthiasis.

Content module 2

"Infectious diseases with an airborne transmission mechanism"

- Topic 5 Rhinovirus. Corona viral, Bocah viral metapneumovirus infection.
- Topic 6 Prolonged fever syndrome of unknown origin.
- Topic 7 International health regulations. Biogerorism.
- Topic 8 Giardiasis.

Content module 3

"Viral hepatitis. HIV infection"

- Topic 9 Diseases caused by herpes viruses of types 6-8.
- Topic 10 Smallpox, mycoplasmosis, ornithosis, legionellosis.
- Topic 11 Differential diagnosis of sore throat.

Content module 4

"Infectious diseases with a transmissible transmission mechanism".

- Topic 12 Erysipeloid, felinosis, Sodoku, streptobacillosis.
- Topic 13 Complications of drug use in the practice of an infectious disease specialist.

- Topic 14 Hemorrhagic fevers.
- Topic 15 Brucellosis.
- Topic 16 Sepsis.

Module 2 "Infectious Diseases"

Content module 1

Diagnosis and treatment of intestinal infections

- Topic 17 The concept of enterotoxigenic and enteroinvasive diarrhea (salmonellosis, food toxicoinfections caused by opportunistic flora, Escherichia coli, cholera, yersiniosis, campylobacteriosis, shigellosis).
- Topic 18 Differential diagnosis of chronic diarrheal syndrome in the clinic of infectious diseases (amoebiasis, balantidiasis, giardiasis, intestinal helminthiasis-ascariasis, trichocephalosis, enterobiasis)

Content module 2

Problems of viral hepatitis

- Topic 19 Features of diagnosis and treatment of chronic forms of viral hepatitis (B, C).
- Topic 20 Differential diagnosis of non-infectious jaundice (drug-induced, toxic hepatitis, alcoholic liver disease, non-alcoholic steatohepatitis, cholestatic jaundice, suprahepatic jaundice)

Content module 3

Problems of respiratory infections

- Topic 21 Differential diagnosis of typical and atypical pneumonia (ornithosis, chlamydia, legionellosis, SARS), pulmonary tuberculosis.
- Topic 22 Features of diagnosis of tuberculous meningoencephalitis.
- Topic 23 Fusospirochetous symbiosis, mumps
- Topic 24 Infectious diseases of the herpesvirus family, features of diagnosis and treatment.

Content module 4

Differential diagnosis of wound infections

- Topic 25 Differential diagnosis of wound infections (anthrax, rabies, tetanus, erysipelas, felinosis, Sodoku). Emergency prevention of rabies and tetanus.

Topics of the lecture course: reveal problematic issues of the relevant sections "Infectious Diseases".

Practical classes provide theoretical justification of the main issues of the topic and acquiring **the following practical skills:**

List of practical skills:

1. Examination of an infectious patient: a) questioning the patient, collecting an epidemiological history; b) objective examination:
2. patient assessment;
3. examination of the skin, mucous membranes, rash assessment;
4. palpation of the lymph nodes;
5. examination of the muscular and bone systems;
6. examination of the pharynx and tonsils;

7. examination of the respiratory system (palpation, percussion, counting the respiratory rate);
8. examination of the cardiovascular system (pulse measurement, palpation, percussion);
9. examination of the digestive system (surface and deep palpation); • assessment of physiological functions (bowel movements, urination).
10. Preparation of infectious patients for instrumental studies.
11. Collection and seeding of material from the patient to the nutrient medium.
12. Preparation of disinfectant solutions for wet disinfection: 0.5 %, 1 %, 3% bleach solution and chloramine solution.
13. Treatment of hair with pediculosis. Basic anti-pediculosis agents.
14. Performing intramuscular, intradermal, subcutaneous, and intravenous injections.
15. Blood sampling for serological studies.
16. Blood culture to isolate hemoculture of patients for typhoid fever and other pathogens of infectious diseases.
17. Collection of material and culture of feces in order to isolate pathogens of the intestinal group of infections. Rules for transporting material to a bacteriological laboratory.
18. Culture of urine on a nutrient medium.
19. Conducting a skin-allergic test and evaluating its results.
20. Technique of probe gastric lavage.
21. Technique of performing a cleansing enema, siphon enema.
22. Rules for the introduction of heterogeneous Sera.
23. Collection of vomit, gastric lavage, feces and seeding on nutrient media, transportation of material to a bacteriological laboratory.
24. Blood sampling for biochemical studies.
25. Determination of bile pigments.
26. Compliance with safety regulations when working with medical instruments, equipment, blood and body fluids.
27. Collection of material from the patient for virological examination.
28. Conducting examination of patients for diphtheria (collecting clinical and epidemiological history, examining the tonsils and pharynx).
29. Sampling of pharyngeal and nasal swabs for bacteriological examination. • Collection and seeding of mucus from the nasopharynx for meningococcus.
30. Preparation of the patient for spinal puncture.
31. Patient care after spinal puncture.
32. Transportation of CSF to the bacteriological laboratory.
33. Caring for malaria patients with fever.
34. Blood sampling to prepare a smear and a large drop of blood.
35. Diagnosis and emergency medical care for malarial coma.
36. Collection of material for laboratory diagnostics of HIV infection.
37. Collection of clinical and epidemiological anamnesis in patients with HIV infection, tetanus, and leptospirosis.
38. Prevention of HIV infection in providing medical care to patients, working with biomaterial.
39. Prevention of injuries, contact with the blood of an HIV-infected person.
40. Accident registration, victim monitoring, and measures to prevent occupational infection.
41. Rules of primary wound treatment, further tactics of the midwife in relation to such a patient.

42. Features of examination of patients and collection of epidemiological anamnesis in anthrax, brucellosis, toxoplasmosis, listeriosis.
43. Conducting and evaluating a skin-allergic test.
44. Actions of a medical professional in case of detection of a patient with suspected quarantine infection in an outpatient clinic or polyclinic, at home.
45. Collection of infected material from patients for quarantine infections, rules of transportation to the laboratory.
46. Personal safety when working with patients for quarantine infections and infected material.
47. Procedure for putting on and taking off an anti-plague suit.
48. Providing emergency medical care for hyperthermia.
49. Providing emergency medical care for intestinal bleeding.
50. Providing emergency medical care for anaphylactic shock

Independent work of a student provides for preparation for practical classes and final control, studying topics for independent out-of-class work, preparing abstract reports, presentations, tables. Control of learning results of topics of independent out-of-class work is carried out during the class and during final control in the discipline.

Individual work includes the study of scientific literature, preparation of reviews on the submitted topics for presentation, implementation of scientific and practical research, participation in specialized competitions, scientific and practical conferences, competitions of student scientific papers.

Calendar plans of practical classes, thematic plan of independent extracurricular work, scope and directions of individual work are published on the website of the Department.

Route for receiving materials: Website of EMU/Student/[Department of Internal Medicine](#) with a course of preventive disciplines/ Educational and methodological support of the Department/ Infectious Diseases / or follow the link [Department of Internal Medicine](#) with a course of preventive disciplines, discipline "Infectious Diseases". Materials are accessed from the student's Office 365-based corporate account.

5. Forms and methods of monitoring learning success

Current control in practical classes	Methods: individual oral survey, structured written works, test tasks with the choice of correct answers.
Control of mastering the thematic section of the discipline in intermediate control classes	Methods: oral or written survey, electronic testing, <i>methods of self-control and self-assessment</i> .

Final semester control at the end of the 11th (12th) semester	According to the regulation on control measures in EMU (regulation of EMU)
Final control of the discipline - <i>exam</i>	Methods: by exam cards in the form of an oral exam, monitoring of acquiring of practical skills (According to the Regulation on control measures in EMU (Regulation of EMU)).
Tools for diagnosing learning success	Theoretical questions, tests, clinically oriented situational tasks, practical tasks, demonstration of practical skills.

6. Evaluation criteria

Knowledge assessment is carried out according to regulation on control measures in EMU ([regulation of EMU](#)).

Current control	According to the four-point system of traditional grades: 5 "Excellent", 4 "Good", 3 "Satisfactory", 2 "Unsatisfactory"
Control of practical skills	According to the four-point system of traditional grades
Exam	Based on a 200-point scale (the sum of points for the current academic activity of the student, the result of passing the exam and for successful completion of an individual task, if any) Credited: 120 to 200 points For current academic activities: 72 to 120 points For the exam: 48 to 80 points Not credited: less than 120 points (see Rating scale)
Final control for the discipline	The final control of students' academic performance is carried out after completing the study of the discipline and is implemented in the form of an exam in the 11th (12th) semester.
Discipline assessment:	The score on the discipline is determined based on the results of assessment of current activities and is expressed using a four-point scale : ("Excellent", "Good", "Satisfactory", "Unsatisfactory"), multi-point scale and ECTS. The assessment in the discipline consists of an assessment of the current academic performance and the result of passing the exam (in points), which is set when evaluating theoretical knowledge and practical skills in accordance with the list defined by the discipline program. The number of points that the applicant scored for current academic performance in the discipline is defined as the arithmetic mean of the number of points that the applicant received during the study of the discipline (practical, seminar, laboratory classes, etc.). The resulting value of the average traditional rating is converted to points according to the scale of conversion of traditional ratings to rating points. The maximum number of points is 200.

Matching grades on a 200-point scale, a 4-point (traditional) scale, and ECTS scale

On a 200-point scale	Rating on a 4-point scale
180–200	Excellent
140–179	Good
120–139	Satisfactory
0–119	Unsatisfactory

On a 200-point scale	ECTS evaluation
192–200	A
172–191	B
148–171	C
128–147	D
120–127	E
0–119	F

Discipline/course policy

The student has the right to receive high-quality educational services, access to up-to-date scientific and educational information, qualified advice during the study of the discipline and mastering practical skills. The policy of the department in the provision of Educational Services is student-centered, based on the regulatory documents of the Ministry of Education and the Ministry of Health of Ukraine, the Charter of the EMU and the procedure for providing educational services regulated by the regulation on the organization of the educational process in the EMU and the principles of academic integrity.

Compliance with the EMU schedule, safety precautions in the classroom.

Requirements for preparing for practical classes.

Students should arrive at classes on time, without being late. A student who is more than 10 minutes late for classes is not allowed in and must work it out in accordance with the established procedure. During practical classes, the student must wear a work uniform (medical gown, cap). Students who do not have a work uniform are not allowed to attend classes. The student must follow the safety rules during practical classes and while staying in the Department's premises. When discussing theoretical issues, students should demonstrate tolerance, politeness and respect for their colleagues and the teacher; when performing practical tasks, the workplace should be kept in order and cleaned after completing practical work.

Use of mobile phones and other electronic devices. The use of mobile phones and other electronic devices in the classroom is not allowed, only during Distance Learning, provided that it is technically necessary.

Academic integrity. When studying the discipline, the student should be guided by the following regulations: on academic integrity of EMU ([regulation of EMU](#)). In case of violation of the regulations of academic integrity during the current and final controls, the student receives a grade of "2" and must work it out to the teacher in accordance with the established procedure. Regulation on control measures in EMU ([Regulation of EMU](#)).

Skipping classes. Missed classes should be worked out in accordance with the procedure established in the regulations on control measures in the EMU ([regulation of EMU](#)) during the time determined by the work schedule ([Department of Internal Medicine](#)) to the teacher on duty. To work out a missed lesson the student must pass a test and answer in writing or verbally the question on the topic of the lesson.

Procedure for admission to the final control in the discipline is given in the regulations on control measures and regulations on the organization of the educational process in the EMU ([regulation of EMU](#)) and regulations on control measures in the TNM DMI ([regulation of EMU](#)). Students who do not have missed not worked out practical classes and lectures and have received an average traditional grade of at least "3" are allowed to participate in the final control.

Additional individual points. Points are awarded subject to the mandatory participation of the head, head teacher and teacher. These points are encouraging and are added once to the total score of the current academic performance and the result of passing the comprehensive exam. Their total number for one student should not exceed 10, and the final amount of points for an academic discipline should not exceed 200 points.

Individual tasks include:

- 1) writing essays and creating multimedia presentations with reports at meetings of the student scientific group of the department – 3 points;
- 2) participation in the creation of tables, graphological structure, posters on the topics of practical classes – 2 points;
- 3) participation in the student competition in the discipline at the First Stage – 1 point;
- 4) participation/prize-winner of the All-Ukrainian student competition in the discipline - 7/10 points;
- 5) author or co-author of abstracts/article – 2/5 points;
- 6) author or co-author of an oral/information stand report at a scientific conference – 6/3 points;
- 7) author of a student scientific paper accepted for participation or awarded by a diploma of I-III degree in the All – Ukrainian competition of student scientific papers at Stage II - 8 (participation) or 10 (diploma) points.

Resolving conflict issues. If there are misunderstandings and complaints against the teacher due to quality of educational services provided, knowledge assessment, and other conflict situations, the student must first report his/her claims to the teacher. If the conflict issue is not resolved, the student has the right to submit an appeal to the head of the department in accordance with the regulations on consideration of applications from applicants for higher education in EMU

([regulation of EMU](#)), Regulations on consideration of applications, complaints, and proposals of students in EMU ([regulation of EMU](#)), Regulations on meeting the requirements of the organization of the educational process ([regulation of EMU](#)), Regulation on the appeal of the results of the final control of knowledge of applicants for higher education in EMU ([regulation of EMU](#)), Regulations on safe educational environment in EMU ([regulation of EMU](#)).

Policy in the context of distance learning. The procedure for distance learning is regulated by [regulation of EMU](#). The main training platforms for conducting training sessions are Microsoft Teams, Zoom. The procedure for conducting practical classes and lectures, working out and consultations during Distance Learning is published on the Department's Web page [Department of Internal Medicine](#).

Feedback from the teacher is provided directly during the lesson and/or consultation, and is also possible via email (in case of force majeure) during working hours.

1. Training resources

Educational and methodological support of the discipline is published on the website of the Department ([Department of Internal Medicine](#)). Consultations are held according to the consultation schedule.

2. Schedule and distribution of groups by teachers are published on the Department's Web page ([Department of Internal Medicine](#)).

3. Questions for intermediate and final control of the discipline are published on the Department's Web page ([Department of Internal Medicine](#)).

Literature

1. Infectious Diseases: textbook (IV a. l.) / O.A. Holubovska, M.A. Andreichyn, A.V. Shkurba et al. MEDICINE. 2018. 664 p.
2. Mandell, Douglas and Bennett's Infectious Disease Essentials / John E. Bennett, Raphael Dolin, Martin J. Blaser. Elsevier. Elsevier. 2016. 560 p.
3. Netter's Infectious Diseases provides / Elaine C. Jong. 2015. 624 p.

Information Resources

1. <http://www.who.int>
2. <http://www.dsns.gov.ua>
3. <https://easl.eu/publications/clinical-practice-guidelines/>
4. <https://www.cdc.gov>

5. <http://www.mon.gov.ua>
6. <http://www.moz.gov.ua>
7. <https://phc.org.ua/kontrol-zakhvoryuvan>
8. <https://www.onlineaha.org/>
9. <https://www.eacsociety.org/guidelines/eacs-guidelines/eacs-guidelines.html>