

Infectious Diseases Department



**“APPROVED”**

First Vice-Rector on  
Scientific and Pedagogical work  
Associate Professor Iryna SOLONYNKO

2023

**DISCIPLINE PROGRAM  
OK 21.1 INFECTIOUS DISEASES**

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(name of the academic discipline)

**Second (master’s) level of higher education  
Field of Knowledge 22 “Healthcare”  
Specialty 221 “Dentistry”  
Faculty, year: Dentistry, 4<sup>rd</sup> year**

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at the educational-methodical meeting of the  
Infectious Diseases Department  
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Head of the Department  
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Approved by the Profile Methodical Board  
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DEVELOPED AND INTRODUCED: Danylo Halytsky Lviv National Medical University  
(full name of the higher educational institution)

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## INTRODUCTION

The program of studying the discipline "Infectious diseases" compiled in according to the Standard of higher education of Ukraine of the second (Master) level

Branch of knowledge 22 "Healthcare"

Specialty 221 "Dentistry"

Academic program Master of Dentistry

**Description of the academic discipline (annotation)** Academic discipline "Infectious diseases" provides an opportunity for students of the School of Dental faculty in the **4th year of study** to get knowledge, ability and practical skills, which provide an opportunity for a specialist to quickly and correctly orient themselves in situations where patients have infectious pathology and other urgent conditions, avoid fatal mistakes or time loss, and take priority steps that will save a human life and/or become a good basis for successful further treatment in the hospital. Learning of discipline is based on knowledge that has achieved by students in the learning process of biology, physiology, microbiology, epidemiology and other basic subjects.

In the learning process of the discipline "Infectious diseases" rationale to apply in the educational process modern world developments and standards on the main questions of infectious diseases.

Structure of the discipline	Number of credits, hours, of which			IWS	Year of study semester	Type of control
	Total	Classroom				
		Lectures (hours)	Practical classes (hours)			
Name of the discipline: "Infectious diseases"	2 credits / 60 hours	6	24	30	4 course (7 Semester)	Credit

**The subject of the discipline is** the main manifestations of infectious diseases, the principles of correct interpretation of clinical information obtained during the examination of the patient and the basic principles of treatment of patients with infectious pathology.

**Interdisciplinary connections:** biology, microbiology, epidemiology, immunology.

### 1. The purpose and objectives of the discipline

1.1. The purpose of teaching the discipline "Infectious diseases" is the assimilation of theoretical and practical knowledge of etiology, epidemiology, pathogenesis, typical clinical manifestations, methods of diagnosis, treatment of infectious pathology within the limits corresponding to the program of training a dentist, taking into account the peculiarities of his specialty.

1.2. The main tasks of studying the discipline "Infectious diseases" is mastering of knowledge, skills and abilities acquisition to ensure the adaptation of students to patients of infectious profile; ability to make a diagnosis, choose appropriate medical and diagnostic manipulations, provide emergency care to patients with infectious pathology.

**1.3 Competences and learning outcomes**, the formation of which is facilitated by discipline (relationship with the normative content of training of higher education applicants, formulated in terms of the results of training in the Standard).

In accordance with the requirements of the standard, discipline ensures that students acquire **competencies**:

*-integrated:* ability to solve complex problems and practical problems in the branch of professional activity 22 "Healthcare", which involves the use of certain theoretical knowledge, skills, practical skills and methods of appropriate professional direction;

*-general:*

1. The ability to apply knowledge in real situations;
2. Conducting researches at the appropriate level;
3. The adaptation and actions in new situations, activities in autonomous and command modes,
4. Evaluation and assurance quality of work performed;
5. Communication in the state language as orally, so in writing, to the search, processing and analysis of information from different sources;
6. Identifying and solving problems; making informed decisions, forming basic ideas that contribute to the development of the general culture and socialization of the individual, ethical values, important stages of national history,
7. The ability to understand the causal relationships of society with the use of them in professional and social activities on the basis of; the provisions of fundamental sciences, and activities in accordance with the main safe and ethical.

*-special (professional, substantive):*

1. The ability to collect medical information about the patient and analyze clinical data.
2. The ability to interpret the results of laboratory and instrumental research.
3. The ability to diagnose: determine preliminary, clinical, final, accompanying diagnosis, emergency conditions.
4. The ability to plan and carry out measures for the prevention of diseases of the organs and tissues of the oral cavity and maxillofacial region.
5. The ability to design the process of providing medical care: to determine the approaches, plan, types and principles of treatment of diseases of the organs and tissues of the oral cavity and maxillofacial region.
7. The ability to determine the tactics of disease management with diseases of the organs and tissues of the oral cavity and maxillofacial region with concomitant somatic diseases.
8. The ability to perform medical and dental manipulations.
9. The ability to treat the main diseases of the organs and tissues of the oral cavity and maxillofacial region.
11. The ability to determine tactics, methods and provision of emergency medical assistance.
14. The ability to maintain regulatory medical documentation.
15. Processing of state, social and medical information.
18. The ability to provide pre-medical care according to the protocols of tactical medicine

Detailed description of competencies according to descriptors of NFQ (National Frame of Qualifications) in the form of “Template of competencies”.

**Template of competencies**

№	Competency	Knowledge	Ability	Communication	Autonomy and responsibility		
<b>Integral competency</b>		Ability to solve complex specialized problems and practical problems in the field of professional activity 22 “Health Care” that provides for certain theoretical knowledge, practical skills and methods according to professional direction					
<b>General competencies</b>							
GC.1.	The ability to abstract thinking, analysis and synthesis.	The ability to abstract thinking, analysis and synthesis.	The ability to abstract thinking, analysis and synthesis.	The ability to abstract thinking, analysis and synthesis.	The ability to abstract thinking, analysis and synthesis.	To know of analysis and further learning	
GC.2.	Knowledge and understanding of the subject area and understanding of professional activity	Have in-depth knowledge of the structure of professional activity.	To be able to carry out professional activities that require updating and integration of knowledge.	The ability to effectively form a communication strategy in professional activities	To bear responsibility for professional development, the ability for further professional training with a high level of autonomy		
GC.3.	Ability to apply knowledge in practical activities...	Ability to apply knowledge in practical activities...	Ability to apply knowledge in practical activities...	Ability to apply knowledge in practical activities...	Ability to apply knowledge in practical activities...	Have some concepts acquired learning	
GC.4.	Ability to communicate in the national language both orally and in writing.	To know the state language perfectly	To be able to communicate in the state language both orally and in writing.	To use knowledge of the language in professional activities.	To be responsible for the development of professional knowledge and skills.		
GC.6.	Skills in using information and communication technologies...	To have deep knowledge in the field of information and communication technologies used in professional activities	To be able to use information and communication technologies in professional field that requires updating and integration of knowledge.	To use information and communication technologies in professional activities	To be responsible for the development of professional knowledge and skills.		
GC.7.	Ability to search, process and analyze information from various sources.	Know the system of official documents flow in the professional work of a doctor, including modern computer information technologies.	Be able to determine the source and location of the required information depending on its type. Be able to process information and analyze the received information	.. Receive the necessary information from a specified source and, based on its analysis, form appropriate conclusions.	Be responsible for the completeness and quality of information analysis and conclusions based on its analysis.		
<b>Special (professional) competences</b>							
GC.1.	The ability to collect medical information about the patient and analyze clinical data. Be able to conduct a conversation with a patient (including a child), on the basis of algorithms and	To have specialized knowledge about the person, the child, his organs and systems, to know the methods and standard schemes of the survey and physical	Be able to conduct a conversation with a patient (including a child), on the basis of algorithms and standards, using standard methods to conduct a physical examination of the	Effectively form a communication strategy when communicating with the patient.	Effectively form a communication strategy when communicating with the patient. To be responsible for the quality collection of information obtained on the basis of an interview, examination survey,		

	standards, using standard methods to conduct a physical examination of the patient.	examination of the patient.	patient. Be able to assess the state of health of a person (including a child).		palpation, percussion of organs and systems and for timely assessment of the state of: human health
GC.2.	The ability to interpret the results of laboratory and instrumental research. and timely evaluation of information on the results of laboratory and instrumental research in the conditions of a health care institution	To have specialized knowledge about a person, his organs and systems, to know the principles of laboratory and instrumental research and evaluation of their results.	To be able to analyze the results of laboratory and instrumental research and, based on them, to evaluate information about the diagnosis of the patient.	Reasonably prescribe and evaluate the results of laboratory and instrumental research.	Be responsible for the correct and timely evaluation of information regarding the results of laboratory and instrumental research in the conditions of a health care institution
GC.3.	Ability to diagnose: determine preliminary, clinical, final, accompanying diagnosis, emergency conditions.	Have specialized knowledge about a person, a child, its organs and systems, know the algorithm of diagnosis in the conditions of a health care facility.	Be able to: identify and record the leading clinical symptom or syndrome; to establish the most probable syndromic diagnosis of the disease, to prescribe laboratory and/or instrumental examination of the patient, to carry out differential diagnosis of diseases	Based on regulatory documents, to maintain the patient's medical documentation (ambulatory/inpatient card, etc.).	Adhering to ethical and legal norms, bear responsibility for making informed decisions and actions regarding the correctness of the established preliminary and clinical diagnosis of the disease.
GC.4.	The ability to plan and carry out measures for the prevention of diseases of the organs and tissues of the oral cavity and maxillofacial area.	Know the principles and systems of planning and conducting preventive and anti-epidemic measures in typical conditions and in conditions of epidemic adversity.	Be able to organize the implementation of preventive and anti-epidemic measures	Inform the population, heads of relevant institutions and enterprises about the timely implementation of preventive and anti-epidemic measures.	To be responsible for qualitative analysis of population morbidity indicators, timely implementation of relevant preventive and anti-epidemic measures
GC.5.	Ability to design the process of providing medical care: to determine the approaches, plan, types and principles of treatment of diseases of the organs and tissues of the oral cavity and maxillofacial region.	Have specialized knowledge of algorithms and standard disease treatment schemes.	Be able to determine the principles and nature of disease treatment.	Form and convey to the patient and specialists own conclusions regarding the principles and nature of treatment	Be responsible for making a decision regarding the principles and nature of treatment of the disease
GC.7.	The ability to determine the management tactics of patients with diseases of the organs and tissues of the oral cavity and maxillofacial region with concomitant somatic diseases.	To have specialized knowledge of algorithms and standard schemes for the treatment of diseases.	To be able to determine the principles and nature of the treatment of the disease.	Form and convey to the patient and specialists own conclusions regarding the principles and nature of treatment	Bear responsibility for making a decision regarding the principles and nature of treatment of the disease
GC.8.	Ability to perform medical and dental manipulations.	Have specialized knowledge about a person, his organs and systems, anatomic-physiological and age-related features;	Be able to perform medical manipulations	Reasonably form and prove to the patient, and/or his parents (guardians), experts conclusions regarding the need for medical manipulations	Be responsible for the quality of performing medical manipulations

		knowledge of the algorithms of performing medical manipulations			
GC.9.	The ability to treat the main diseases of the organs and tissues of the oral cavity and maxillofacial area.	Have specialized knowledge of algorithms and standard disease treatment schemes.	Be able to determine the principles and nature of disease treatment. Be able to determine the principles and nature of disease treatment.	Form and convey to the patient and specialists own conclusions regarding the principles and nature of treatment	Bear responsibility for making a decision regarding the principles and nature of treatment of the disease
GC.11.	The ability to determine the tactics, methods and provision of emergency medical aid.	To know the legislative framework for the provision of emergency medical aid, in particular the Law of Ukraine "On Emergency Medical Aid". Have specialized knowledge about emergency human conditions; principles of providing emergency medical care.	Be able to identify emergency situations (according to list 3); principles and tactics of providing emergency medical care; to carry out organizational and diagnostic measures aimed at saving and preserving human life	Reasonably formulate and prove to the patient or his legal representative the need to provide emergency care and obtain consent for medical intervention	Be responsible for the correct definition of an emergency condition, its degree of severity, and the tactics of providing emergency medical care.
GC.14.	The ability to maintain standard medical documentation..	To know the system of official documents circulation in the professional work of a doctor, including modern computer information	Be able to determine the source and location of the required information depending on its type. Be able to process information and analyze the received information.	Receive the necessary information from a specified source and, based on its analysis, form appropriate conclusions.	Be responsible for the completeness and quality of information analysis and conclusions based on its analysis.

## Results of studies:

*Integrative final training results, the formation of which is facilitated by discipline:* apply knowledge in practical situations; perform experimental research and show skills on professional topics, adapt to new situations, work effectively both autonomously and as part of a team; responsibly treat the work done to achieve the goal; use information and communication technologies to solve various research and professional tasks; search for information in various sources to solve problems of the specialty, make informed decisions with the assessment of their consequences, show the ability to public, business and scientific communications; adhere to the code of professional ethics, moral norms and values, etiquette rules, understand the basic principles of labor protection and life safety in the realm of professional activity; ability to make a diagnosis, choose appropriate medical and diagnostic manipulations, provide emergency care to patients with infectious disease.

*Results of training for the discipline:* mastering the basic principles of organization of assistance to infectious patients, clinical laboratory and additional methods of diagnosis of infectious pathology; etiology, pathogenesis, clinic, diagnosis and methods of treatment of infectious diseases (within the curriculum); etiological, pathogenetic factors, clinical manifestations and diagnosis of emergency conditions; basic methods of general clinical examination of the patient (survey, examination, palpation, auscultation), determination of the scope of additional studies and analysis of the data obtained to establish a preliminary diagnosis; performing general medical manipulations (injections, gastric lavage, etc.); providing the necessary assistance in case of shock, coma, allergic reactions, asphyxia, conducting of medical documentation.

## 2. Information volume of academic discipline

**60 hours of 2 ECTS credits are 60 hours for studying the discipline.**

### 3. Structure of the discipline Infectious diseases

№	Themes	Lectures	Practical class	IWS
<b>Introduction to infectology. Infectious diseases with fecal-oral route of transmission and with air-borne mechanism of transmission</b>				
1.	Infectious process and infectious diseases: definition. Methods of diagnosis, prevention and immune prevention. Complications of treatment with medicinal preparations.		3	15
2	Diarrheal syndrome, caused by bacterias. Nontyphoidal salmonellosis. Food Poisoning, emergency care. Diseases caused by helminths. Shigellosis. Viral infections of the Gastrointestinal tract. Enterovirus and rotavirus infection. Poliomyelitis. Botulism. Travelers diarrhea.		3	
3	Infections of the respiratory tract. Prevention, immune prevention of influenza. COVID-19. Meningococcal nasopharyngitis. Prevention, immune prevention of the meningococcal infection.		3	
4	Peculiarities of pediatric infectious diseases in adults (measles, rubella, mumps). Immune prevention of measles, rubella, mumps. Clinical characteristics of tonsillitis. Diphtheria. Immune prevention of diphtheria.	2	3	
5	Herpes-virus infections – HSV, VZV, EBV, CMV. Clinical characteristic of herpes simplex infection. Methods of treatment and prevention. Differential diagnosis of diseases of oral cavity.		3	
<b>Infectious diseases with a predominance of the parenteral transmission way and with a predominance of the contact mechanism of transmission. Infectious diseases regulated by international medical and sanitary rules.</b>				
6	Viral hepatitides with the parenteral mechanism of transmission. Manifestations, methods of laboratory diagnosis, treatment prevention, immune prevention of viral hepatitides A and B. Peculiarities of acquiring infection in practical work of dentists. Personal, planned and emergency prevention. AIDS-associated infections with impairment of oral cavity mucosa.	2	3	15
7	Leptospirosis. Zoonotic diseases with impairment of oral cavity mucosa: Tularemia, Anthrax, Apathae epizooticae, Listeriosis. Malaria. Lyme disease, methods of diagnosis. Definition of transmissible infections regulated by international medical and sanitary rules: Lassa hemorrhagic fever, Marburg hemorrhagic fever, Ebola Hemorrhagic fever	2	3	
8	Emergency cases at infectious diseases in dentist`s practice. Prevention of infectious diseases in dentist`s practice.		3	
<b>Total</b>		<b>6</b>	<b>24</b>	<b>30</b>

### 4. Thematic plan of lectures



<b>№</b>	<b>Theme</b>	<b>Hours</b>
<b>1</b>	Diarrheal syndrome. Nontyphoidal salmonellosis. Food Poisoning, emergency care.	<b>2</b>
<b>2</b>	Infections of the respiratory tract. Influenza. Herpes-virus infections – HSV, VZV, EBV, CMV. Clinical characteristic of herpes simplex infection.	<b>2</b>
<b>3</b>	Viral hepatitides with the parenteral mechanism of transmission. AIDS-associated infections and invasions.	<b>2</b>
	<b>Total</b>	<b>6</b>

### 5. Thematic plan of practical classes

<b>№</b>	<b>Theme</b>	<b>Hours</b>
<b>1</b>	Infectious process and infectious diseases: definition. Classification, methods of diagnosis, treatment and prevention and immune prevention. Complications of treatment with medicinal preparations.	3
<b>2</b>	Diarrheal syndrome. Nontyphoidal salmonellosis. Food Poisoning, emergency care. Diseases caused by helminths. Shigellosis. Viral infections of the Gastrointestinal tract. Enterovirus and rotavirus infection. Poliomyelitis. Botulism. Travelers diarrhea.	3
<b>3</b>	Infections of the respiratory tract. Prevention, immune prevention of influenza. COVID-19. Meningococcal nasopharyngitis. Prevention, immune prevention of the meningococcal infection.	3
<b>4</b>	Peculiarities of pediatric infectious diseases in adults (measles, rubella, mumps). Immune prevention of measles, rubella, mumps. Clinical characteristics of tonsillitis. Diphtheria. Immune prevention of diphtheria.	3
<b>5</b>	Herpes-virus infections – HSV, VZV, EBV, CMV. Clinical characteristic of herpes simplex infection. Methods of treatment and prevention. Differential diagnosis of diseases of oral cavity.	3
<b>6</b>	Viral hepatitides with the parenteral mechanism of transmission. Manifestations, methods of laboratory diagnosis, treatment prevention, immune prevention of viral hepatitides A and B. Peculiarities of acquiring infection in practical work of Dentists. Personal, planned and emergency prevention. AIDS-associated infections with impairment of oral cavity mucosa.	3
<b>7</b>	Leptospirosis. Zoonotic diseases with impairment of oral cavity mucosa: Tularemia, Anthrax, Aphtae epizooticae, Listeriosis. Malaria. Lyme disease, methods of diagnosis. Definition of transmissible infections regulated by international medical and sanitary rules: Lassa hemorrhagic fever, Marburg hemorrhagic fever, Ebola Hemorrhagic fever.	3
<b>8</b>	Emergency cases at infectious diseases in dentist`s practice. Prevention of infectious diseases in dentist`s practice.	3
	<b>Total</b>	<b>24</b>

### 6. Thematic plan of students' self-study.

<b>№</b>	<b>Theme</b>	<b>Hours</b>	<b>Type of control</b>
1.	Classification of antibiotics.	5	Current control during practical lessons
2.	Botulism.	5	
3.	Helminthiases.	10	
4.	Total understanding of travelers diseases (Travelers diarrhea, hemorrhagic fevers, Malaria).	10	

Total	30	
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## 7. Individual tasks

Individual tasks in the study of the discipline involve the implementation of individual tasks in the form of preparation of reviews of scientific literature and abstracts with in-depth study of relevant topics of choice, creating visual aids, presentations at conferences, and individual research in student groups, participation in national competitions. Create slides according to the thematic plan.

## 8. Teaching methods

*Visual:* In the study of the discipline "Infectious diseases" a set of methods is used: - methods of verbal transmission and auditory perception of educational information (lectures, conversations, stories, explanations, discussions), methods of visual transmission and visual perception of educational information (demonstration and demonstration of slides, videos, study of literary and other sources of educational information, the use of visual means of learning), methods of transmitting educational information through practical, labor actions and tactile perception of it (training tasks and creative exercises). , review of thematic patients).

*Practical methods:* Curation of patients, examination of patients with infectious pathology, solving clinical situational problems and tests, mastering elements of medical equipment for examination of patients.

## 9. Control methods

The current control is carried out during the training sessions and aims to check the students' perception of educational material on a 4-point (national) scale. Forms of evaluation of current educational activities are standardized and include control of theoretical and practical training. During the assessment of the assimilation of each topic for the current educational activity, the student is assessed according to the 4-point (national). At the same time, all types of work provided for by the discipline program are taken into account. The student must receive an assessment on each topic for further conversion of grades into scores on a multi-point (200-point) scale.

### Evaluation criteria for current academic activities:

The **assessment is "excellent"** received by the student who took an active part in discussing the most difficult questions on the topic of the lesson, gave at least 90% of the correct answers to standardized test tasks, answered written tasks without errors, completed a practical task.

The **assessment of "good"** is received by the student who participated in the discussion of the most difficult questions on the topic, gave at least 75% of the correct answers to standardized test tasks, made some minor mistakes in responses to written tasks, completed a practical task with minor errors.

The **assessment is "satisfactory"** received by a student who did not participate in the discussion of the most difficult questions on the topic, gave at least 60% of the correct answers to standardized test tasks, made significant mistakes in responses to written tasks, completed a practical task with errors.

The **assessment is "unsatisfactory"** received by a student who did not participate in the discussion of the most difficult questions on the topic, gave less than 60% of the correct answers to standardized test tasks, made gross mistakes in responses to written tasks or did not answer them at all, did not perform a practical task.

**10. Current control:** Scores set on the traditional scale are converted into points. The maximum number of points a student can score for current academic activity in the study of discipline is 200 points. The minimum number of points that a student must score for current academic activity for enrollment of the discipline is 120 points.

*The calculation of the number of points* is carried out on the basis of the grades received by the student on the traditional scale during the study of the discipline, by calculation of Arithmetic Mean (AM), rounding to two digits after the comma. Obtained quantity is converted into points according to multipoint scale in the following way:

$$\frac{AM \times 200}{}$$

$$x = \frac{\quad}{5}$$

For convenience, a recalculation table on a 200-point scale is given:

**Recalculation of the average assessment for current activities on a multi-scale for disciplines ending with the passed**

4 - point scale	200 - point scale
5	200
4.97	199
4.95	198
4.92	197
4.9	196
4.87	195
4.85	194
4.82	193
4.8	192
4.77	191
4.75	190
4.72	189
4.7	188
4.67	187
4.65	186

4.62	185
4.6	184
4.57	183
4.52	181
4.5	180
4.47	179
4.45	178
4.42	177
4.4	176
4.37	175
4.35	174
4.32	173
4.3	172
4.27	171
4.24	170
4.22	169
4.19	168
4.17	167
4.14	166
4.12	165
4.09	164
4.07	163

4.04	162
4.02	161
3.99	160
3.97	159
3.94	158
3.92	157
3.89	156
3.87	155
3.84	154
3.82	153
3.79	152
3.77	151
3.74	150
3.72	149
3.7	148
3.67	147
3.65	146
3.62	145
3.57	143
3.55	142
3.52	141
3.5	140

3.47	139
3.45	138
3.42	137
3.4	136
3.37	135
3.35	134
3.32	133
3.3	132
3.27	131
3.25	130
3.22	129
3.2	128
3.17	127
3.15	126
3.12	125
3.1	124
3.07	123
3.02	121
3	120
Less than 3	Insufficient

Form of summary control for the discipline is a credit. Maximum amount of points, which the student can gain for ongoing learning activity while studying the discipline is 200 points. Minimum amount of points, which the student has to gain for ongoing learning activity for enrolling the discipline, is 120 points.

Term credit – is a form of the summary control that involves evaluation of the material learned by the student on certain discipline, entirely on the grounds of his performing all the sorts of training activities, expected by the syllabus. Term credit is deducted according to the results of ongoing control.

Points on the discipline for the students, who successfully completed the syllabus, are converted into traditional 4-point scale according to the absolute criteria, given below in the table:

Points for the discipline on 4-point scale

From 170 to 200 points - 5

From 140 to 169 points - 4

From 139 points to the minimum number of points that a student must score - 3

Below minimum amount of points, that the student has to gain is 2

Grade ECTS is not converted into traditional scale as scales ECTS and 4-point are independent.

Objectivity of evaluation of Learning activity is checked by statistical methods (coefficient of correlation between grade ECTS and grade on national scale).

## 11. Methodological support

Teaching of the discipline at lectures is provided by methodological developments, (presentations, educational films), information resource of the department. Teaching of the discipline on practical classes

is provided by methodological developments, the topics of independent and individual tasks, presentations, educational films and other means for practicing practical skills, information resource of the department, algorithms for the implementation of practical skills and structured algorithms for controlling skills. Independent and individual work in the studying of academic discipline is provided by methodological developments of the independent work of students.

## **12. Recommended Literature**

### **Main (basic)**

1. Infectious Diseases: textbook/ edited by O.A. Holubovska, M.A. Andreichyn, A.V. Shkurba, B.A. Herasun, O.M. Zinchuk et al. – Kyiv: AUS Medicine Publishing, 2018. – P 664
2. Harrison's infectious diseases/Dennis L Kasper; Anthony S Fauci/ New York:McGraw-Hill Education, ©2017

### **Additional literature**

- Dennis L. Kasper, Anthony S. Fauci. Harrison's Infectious Diseases, Third Edition. 2016
- Katherine H. West. Infectious Disease Handbook for Emergency Care Personnel, Third Edition 3rd Edition. 2016
- Judith A. Aberg, Morton P. Goldman, Larry D., Ph.D. Gray. Infectious Diseases Handbook: Including Antimicrobial Therapy & Diagnostic Tests/Procedures -- 6th Edition (Diagnostic Medicine Series). 2005.
- Atlas of Infectious Diseases [M.A. Andreychyn, V.S. Kopcha, S.O. Kramarev, etc.]; edition by M.A. Andreychyn — 3rd edition. — Lviv: Magnolia, 2019.— 296 p.
- Basics of treatment of infectious diseases. O.P.Adamovych, O.B.Vorozhbyt, O.B.Gerasun and others. Lviv: LNMU, 2015. – 124 p.
- Recognition and diagnosis of infectious diseases/Manual for English-speaking students of medical universities. M. KryzhanSCa, O. Zubach, O.Vorozhbyt. Lviv: LNMU, 2018. – 95 p.

## **13. Information resources**

- Verkhovna Rada of Ukraine <http://www.rada.kiev.ua>.
- Cabinet of Ministers of Ukraine <http://www.kmu.gov.ua/>.
- Ministry of Education, Science, Youth and Sports of Ukraine <http://www.mon.gov.ua>, [www.osvita.com](http://www.osvita.com).
- The Ministry of Emergencies and Protection of the Population from the Consequences of the Chornobyl <http://www.mns.gov.ua/>.
- Ministry of Health <http://www.moz.gov.ua/ua/portal/>
- The National Security and Defense Council of Ukraine <http://www.rainbow.gov.ua/>.