

**MINISTRY OF HEALTH OF UKRAINE  
LVIV NATIONAL MEDICAL UNIVERSITY  
NAMED AFTER DANYLO HALYTSKY**

**Department of Dermatology, Venereology**



**WORKING PROGRAMM OF DISCIPLINE OK 20.5  
“DERMATOLOGY, VENEREOLOGY”**

**for training of specialists of the second (master's) level of higher education  
field of knowledge 22 "Healthcare"  
specialty “221 “Dentistry”**

**IV year – Faculty of Dentistry**

**LVIV – 2023**

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	<p><b>APPROVED BY</b> First Pro-rector for scientific and pedagogical work assoc. professor I.I. Solonyenko</p> <p><i>[Signature]</i> 29.04.2023</p>
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<p><b>Discussed and approved</b> at the meeting of Department of Dermatology, Venereology Minutes No. <i>72</i> as of "<i>10 April</i>" 2023 Head of the Department <i>[Signature]</i> MD, prof. Syzon O.O.</p>	<p><b>Approved by</b> the field-specific methodological commission for therapeutic discipline Minutes No. <i>3</i> as of "<i>04 May</i>" - 2023 Head of field-specific methodological commission <i>[Signature]</i> prof. Radchenko O.M.</p>
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2023

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**CHANGES AND ADDITIONS TO THE STUDY PROGRAM OF DISCIPLINE “DERMATOLOGY,  
VENEREOLOGY ” SPECIALTY “221 “ DENTISTRY ”  
FOR 2023-2024 ACADEMIC YEAR**

<b>No</b>	<b>Content of changes (additions)</b>	<b>Minutes of meeting, date</b>	<b>Notes</b>
1.	The list of general and special competences has been updated.	Minutes #72 20 Apr 2023	
2.	The list of recommended literature has been updated.	Minutes #72 20 Apr 2023	
3.	Changed the discipline code to OK 20.5.	Minutes #72 20 Apr 2023	

The Chair of the Department  
of Dermatology, Venereology  
MD, prof.



Syzon O.O.

Program of the discipline “Dermatology, Venereology” for the 4<sup>th</sup> year students (masters), who study the specialty 221 “Dentistry” is composed by the staff of the department of Dermatology, Venereology of Danylo Halytsky Lviv National Medical University: head of the department, doctor of medicine prof. O.O. Syzon, PhD assoc. prof: I.D. Babak, I.Ya. Vozniak, M.O. Dashko, H.E. Astsaturov, I.O. Chaplyk-Chyzho, assist.prof. V.V. Protsak.

**Reviewers:**

- Chair of the Department of Propedeutics of Internal Medicine №1 of LNMU named after Danylo Halytsky, MD, professor, honoured Doctor of Ukraine R.J. Dutka
- Chair of the Department of Clinical Immunology and Allergology LNMU named after Danylo Halytsky, MD, professor, honored Doctor of Ukraine V.V. Chopyak

## INTRODUCTION

### **The program of studying the discipline "Dermatovenereology"**

in accordance with the Standard of Higher Education of the second (master's) level field of knowledge 22 "Healthcare"  
specialty 221 "Dentistry",  
educational *master's* program

### **The Program is designed in accordance with the following regulatory documents:**

The working program of the elective course " **Dermatovenereology** " for students of the IV year of the Faculty of Dentistry in the specialty 221 "Dentistry" is concluded on the basis of the educational and professional program " Dentistry " of the second (master's) level of higher education in the specialty 221 "Dentistry" field of knowledge 22 Health care, decision of the Academic Council of the Danylo Halytsky National Medical University 15.Feb.2023 (protocol No. 1-BP) and Regulations on the organization of the educational process at the Danylo Halytsky Lviv National Medical University, adopted by the Academic Council and by the rector of the university No. 656-3 dated 15.Jun.2023. The purpose of the Regulation is to standardize the content, scope, sequence and organizational forms of studying the discipline by students, as well as the forms and means of current and final control of knowledge.

**Description of the discipline "Dermatovenereology"** – is based on the knowledge, previously acquired by masters, in anatomy, histology, normal and pathological physiology, medical biology, microbiology and other morphological disciplines and it is integrated with these disciplines. Besides it is an important component of further master study of clinical disciplines providing integration of teaching with the above disciplines and forming abilities to apply dermatology knowledge in further education and in professional activities. It lays the foundations of a healthy lifestyle and informs on way how to prevent infection ingress due to sexually transmitted diseases.

Structure of academic discipline	Quantity of hours, credits, out of them				Year of studying semester	Type of control
	Total	Classroom hours		IS W		
		Lectures	Practical classes			
<b>Discipline:</b> <b>"Dermatovenereology":</b> <b>Thematic modules - 8</b>	<b>2,0 credits/ 60 hours</b>	<b>6</b>	<b>24</b>	<b>30</b>	<b>IV year VIII semester</b>	<b>Credit</b>
<i>Thematic module 1</i>	<b>0,33 credits / 10 hours</b>	<b>2</b>	<b>3</b>	<b>5</b>	-	
<i>Thematic module 2</i>	<b>0,2 credits / 6 hours</b>	-	<b>3</b>	<b>3</b>	-	
<i>Thematic module 3</i>	<b>0,2 credits / 6 hours</b>	-	<b>3</b>	<b>3</b>	-	
<i>Thematic module 4</i>	<b>0,2 credits / 6 hours</b>	-	<b>3</b>	<b>3</b>	-	
<i>Thematic module 5</i>	<b>0,2 credits / 6 hours</b>	-	<b>3</b>	<b>3</b>	-	
<i>Thematic module 6</i>	<b>0,33 credits / 10 hours</b>	<b>2</b>	<b>3</b>	<b>5</b>	-	
<i>Thematic module 7</i>	<b>0,27 credits / 8 hours</b>	<b>2</b>	<b>3</b>	<b>3</b>	-	

<b>Thematic module 8</b>	<b>0,27 credits / 8 hours</b>	<b>-</b>	<b>3</b>	<b>5</b>	<b>-</b>	
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**The subject of the study of the discipline** is the structure and functions of the skin and mucous membranes, hair and nails, skin diseases, their diagnosis, treatment and prophylaxis, as well as infectious diseases that are transmitted mainly (but not exclusively) by sexual means and which have objective (rashes on skin, mucous membranes, defeat of internal organs) and subjective manifestations.

### **Interdisciplinary integration:**

the discipline "Dermatovenereology"

- a. is based on the knowledge, previously acquired by masters, in anatomy, histology, normal and pathological physiology, medical biology, microbiology and other morphological disciplines and it is integrated with these disciplines;
- b. is an important component of further master study of clinical disciplines providing integration of teaching with the above disciplines and forming abilities to apply dermatology knowledge in further education and in professional activities;
- c. lays the foundations of a healthy lifestyle and informs on way how to prevent infection ingress due to sexually transmitted diseases.
- d. is associated with other medical specialties: with infectology (STI, transmissible viral and parasitic diseases of the skin and skin appendages), toxicology (toxicodermia, pseudoporphyria and other toxic reactions), hematology (skin manifestations of polycythemia), rheumatology (systemic collagenoses, vasculitis) , endocrinology (skin changes in diabetes mellitus, hypothyroidism, hyperthyroidism), oncology (melanomas and other tumors of the skin and its appendages), with neurology (neurodermatitis, genetically caused neuro-skin syndromes), allergology (Lyell's syndrome, Stevens-Johnson syndrome, urticaria, angioneurotic edema and other allergic reactions to drugs), dental disciplines (cheilitis, precancerous and cancer oral mucous membranes), psychiatry (tryhotilomania, patomimia).

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

1.1. The studying purpose of the discipline "Dermatovenereology" is the formation of systemic medical knowledge, skills for diagnosis of skin and venereal diseases. It is anticipated that knowledge of the basic clinical signs of skin and venereal diseases will enable the general practitioner to diagnose such diseases in time and direct the patient to a dermatologist. Awareness of the manifestations of sexually transmitted sexually transmitted diseases (HIV infection, hepatitis B and C, papillomavirus infection, etc.) is an important part of the professional training of a general practitioner, and knowledge of preventive measures against these diseases is the responsibility of the physician of any specialty.

1.2. The main tasks of the discipline "Dermatovenereology" is the study of:

- the basics of theoretical dermatology (anatomical and microscopic structure of skin and mucous membranes, physiology and pathology of the skin, the basis of clinical pharmacology for the treatment of skin diseases);
- main clinical and diagnostic signs of widespread skin diseases, their prevention and treatment;
- features of the clinical course of some infections (including leprosy, tuberculosis), sexually transmitted diseases, HIV-infections and other sexually transmitted infections.

1.3 Competence and learning outcomes, to the formation of which the discipline contributes (the relationship with the normative content of the training of higher education graduates, formulated in terms of results of study in the Standard of Higher Education).

In accordance with the requirements of the Standard of Higher Education, discipline ensures students' acquisition of **competences**:

*-general:*

- GC 1. The ability to abstract thinking and analysis.
- GC 2. Ability and understanding of subject area and profession.
- GC 3. Ability to apply knowledge in practical situations.
- GC 4. Ability to communicate in the state language.
- GC 5. Ability to communicate in English (foreign) language.

- GC 6. Skills in using information and communication technologies.
- GC 7. Ability to search, process and analyze information from various sources.
- GC 8. Ability to adapt and act in a new situation.
- GC 10. The ability to be critical and self-critical.
- GC 11. Ability to work in a team.
- GC 12. Efforts to preserve the environment.

- *special (professional, substantive):*

- SC 1. Ability to collect medical information about the patient and analyze clinical data.
- SC 2. The ability to interpret the results of laboratory and instrumental research.
- SC 3. Ability to diagnose: determine preliminary, clinical, final, accompanying diagnosis, emergency conditions.
- SC 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.
- SC 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 area.
- SC 6. The ability to determine a rational regimen of work, rest, and diet in patients in the treatment of diseases of the organs and tissues of the oral cavity and maxillofacial region.
- SC 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.
- SC 8. Ability to perform medical and dental manipulations.
- SC 10. Ability to organize and carry out medical evacuation measures.
- SC 13. The ability to assess the impact of the environment on the state of health of the population (individual, family, population).
- SC 14. Ability to maintain normative medical documentation.
- SC 15. Processing of state, social and medical information.
- SC 16. Ability to organize and carry out rehabilitation measures and care for patients with diseases of the oral cavity.
- SC 17. The ability to legally secure one's own professional activity.

Determination of competencies according to the descriptors of the NRC in the form of "Matrix of competencies".

**Matrix of competencies**

<b>№</b>	<b>Competency</b>	<b>Knowledge</b>	<b>Abilities</b>	<b>Communication</b>	<b>Autonomy and responsibility</b>
<b><i>General competencies</i></b>					
<b>1</b>	The ability to abstract thinking and analysis.	To know the current trends in the industry and indicators that characterize them.	Be able to conduct an analysis of professional information, make informed decisions, acquire modern knowledge.	Establish appropriate relationships to achieve goals.	Be responsible for the timely acquisition of knowledge.
<b>2</b>	Understanding of the subject area and profession.	To know the peculiarities of the professional activity of the dermatologist.	Be able to carry out professional activities that require updating and integration of knowledges.	To form a communication strategy in professional activity.	Be responsible for continuous development with a high level of autonomy.
<b>3</b>	Ability to apply knowledge in practical situations.	Know the methods of realizing knowledge in solving practical	Be able to use professional knowledge to solve practical problems.	To establish contacts with the subjects of practical activity.	Be responsible for the reasonableness of the taken decisions.

		problems.			
<b>4</b>	Ability to communicate in the state language and the second (foreign) language.	To know the state language, including professional orientation. To know the foreign language at a level sufficient for professional communication.	Be able to use the state language and foreign language for professional activities and communication.	To form a communication strategy in professional activity.	To be responsible for continuous professional development with a high level of autonomy.
<b>5</b>	Ability to search, process and analyze information from different sources in Ukrainian and foreign languages.	To have the necessary knowledge in the field of information technology applied in professional activity in Ukrainian and foreign languages.	Being able to use information technology in the professional field to search, process and analyze new information from different sources and in different languages.	To use information technology in professional activities.	To be responsible for the continuous development of professional knowledge and skills in Ukrainian and foreign languages.
<b>6</b>	Ability to adapt and act in a new situation.	To know the methods of realizing knowledge in solving practical problems.	To be able to use professional knowledge for adaptation and action in a new situation.	To establish contacts with the subjects of practical activity.	To be responsible for the quality of performing professional tasks in a new situation.
<b>7</b>	Ability to work autonomously, to identify skills and to put and solve problems.	To know the methods of realizing knowledge in identifying, staging and solving problems of professional activity.	To be able to use professional knowledge to identify, articulate and solve professional problems.	To establish contacts with the subjects of practical activity with the purpose of revealing, setting and solving problems of professional activity.	To be responsible for the reasonableness of the decisions taken to solve problems of professional activity.
<b>8</b>	Ability to choose a communication strategy.	To know the methods of realizing knowledge in choosing a strategy for communicating with patients and colleagues.	To be able to use knowledge to choose a strategy for communicating with patients and colleagues.	To form a communication strategy in professional activity.	To be responsible for continuous professional development with a high level of autonomy.
<b>10</b>	Ability to work in a team.	Know how to collaborate on teamwork.	To be able to use knowledge to choose a communication strategy during	To form a communication strategy in professional	To be responsible for continuous professional



			teamwork.	activity.	development.
<b>11</b>	Collaboration skills with colleagues and patients.	To know how to interact with colleagues and patients.	To be able to use knowledge to choose a communication strategy during teamwork.	To form a communication strategy in professional activity.	To be responsible for continuous professional development with a high level of autonomy.
<b>12</b>	Ability to act on ethical grounds.	To know the moral and ethical principles of a medical specialist and the rules of professional subordination.	To use in practice the moral and ethical principles of a medical specialist and rules of professional subordination.	To observe during professional activity the moral and ethical principles of a medical specialist and rules of professional subordination.	To have personal responsibility for observing the moral and ethical principles of the medical specialist and the rules of professional subordination.

***Special (professional competencies)***

<b>1.</b>	Ability to collect medical information about the patient and analyze clinical data.	Know the current legal norms of the relationship between a doctor and a dermatovenerologist → a patient.	To be able to collect and interpret complaints, disease and life anamnesis, conduct a physical examination (using dermatological tests) of specialized patients.	To determine the etiological and pathogenetic factors of the appearance and subsequent clinical course of the most common skin and venereal diseases in humans.	To bear personal responsibility for the correctness of anamnesis collection, examination and identification of the main risk factors for the development of skin and venereal diseases.
<b>2.</b>	The ability to interpret the results of laboratory and instrumental research.	Know special dermatological methods of examining patients (palpation, diascopy, isomorphic skin reaction test, dermatography, pilomotor reflex, skin allergy tests); laboratory diagnostic methods (general and special).	To have the technique of conducting diagnostic tests (examination of the patient under the Wood's lamp, carrying out Balzer's test, determination of psoriatic phenomena, etc.), taking material for further laboratory research, evaluating and interpreting the obtained results.	Prescribe laboratory and/or instrumental examination, carry out differential diagnosis of dermatoses.	To bear personal responsibility for the correctness of the stages of examination of a dermatological patient and the conduct of additional examination methods.

3.	Ability to diagnose: determine preliminary, clinical, final, accompanying diagnosis, emergency conditions.	To know the algorithm of the examination of dermatologic patient, functional methods of examination.	To be able to conduct a survey of a dermatologic patient, to prescribe laboratory examinations and consultations of adjacent specialists.	To understand the importance of basic and additional methods of examination to establish the correct diagnosis followed by treatment plan.	To take personal responsibility for the correctness of the dermatological examination and additional investigation.
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 basics of prevention of skin (including contagious) and venereal diseases.	Be able to carry out professional activities in compliance with safety rules.	To determine the etiological and pathogenetic factors of the appearance and subsequent clinical course of the most common skin and venereal diseases in humans.	To bear personal responsibility for possessing knowledge at a sufficient level regarding the basic principles and methods of prevention and prevention of the spread of skin and venereal diseases.
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 area.	To know the basic principles and methods of treatment of patients with dermatovenereological pathology, the criteria for cure, the required volume of recommendations, types and degrees of disability of dermatovenereological patients.	Be able to carry out early diagnosis of skin and venereal diseases, be able to plan and implement measures to prevent the spread of these diseases. To be able to use local medicinal products (lotions, pastes, ointments, etc.). Methodology of UV-irradiation of the skin in psoriasis and other dermatoses.	Determine the basic principles of treating patients according to their diagnosis.	To bear personal responsibility for possessing knowledge at a sufficient level regarding the basic principles and methods of treatment of patients with skin and venereal diseases. Knowledge of the classification of dermatological, functional equipment.
6.	The ability to determine a rational regimen of work, rest, and diet in patients in the treatment of diseases of the organs and tissues of the oral cavity and maxillofacial region.	To know the basic principles and methods of treatment of patients with dermatovenereological pathology, the criteria for	To be able to provide differentiated recommendations regarding the mode of work and rest in the treatment and prevention of dermatological diseases.	Form a communication strategy in professional activities.	Be responsible for continuous professional development with a high level of autonomy.

		cure, the required volume of recommendations, types and degrees of disability of dermatovenerological patients.			
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.	Know the algorithm for conducting an examination of a dermatological patient, the methodology for conducting functional examination methods.	To be able to conduct an examination of a dermatological patient, to prescribe a laboratory examination and consultations of related specialists according to the indications.	Understand the importance of conducting basic and additional examination methods to establish the correct diagnosis, followed by drawing up a treatment plan.	To bear personal responsibility for the correctness of the stages of examination of a dermatological patient and the conduct of additional examination methods.
8.	Ability to perform medical manipulations.	Know the methods and techniques of diagnostic and therapeutic manipulations that can be used in the work of a dermatovenerologist.	To know the methods and techniques of conducting diagnostic and therapeutic manipulations that can be used in the work of a dermatovenerologist.	To determine the tactics of managing a patient with skin and venereal diseases.	To bear personal responsibility for possessing knowledge at a sufficient level regarding the basic principles and methods of treatment of patients with skin and venereal diseases.
10.	Ability to organize and carry out medical evacuation measures.	To know the basic principles and methods of treatment of patients with dermatovenerological pathology, the criteria for cure, the required volume of recommendations, types and degrees of disability of dermatovenerological	To be able to use local medicinal products (lotions, pastes, ointments, etc.). Methodology of UV-irradiation of the skin in psoriasis and other dermatoses.	Determine the basic principles of treating patients according to their diagnosis.	To bear personal responsibility for possessing knowledge at a sufficient level regarding the basic principles and methods of treatment of patients with skin and venereal diseases. Knowledge of the classification of dermatological, functional equipment.

		patients. Be able to carry out early diagnosis of skin and venereal diseases, be able to plan and implement measures to prevent the spread of these diseases.			
<b>13.</b>	The ability to assess the impact of the environment on the state of health of the population (individual, family, population).	Know the main factors of influence of the environment, socio-economic and biological determinants on the state of health of an individual, family, population.	Be able to determine the influence of environmental factors, socio-economic and biological determinants on the state of health of an individual, family, population.	To establish connections with subjects of practical activity.	To be responsible for the quality of the performance of professional tasks in a new situation.
<b>14.</b>	Ability to maintain normative medical documentation.	Know the current legal norms of the relationship between a doctor and a dermatovenerologist → a patient.	Be able to keep the documentation necessary for the work of a dermatovenerologist (medical history, outpatient card, sick leave, reports, etc.).	Establish appropriate connections to achieve goals.	To bear personal responsibility for compliance with the current legal norms of the relationship between the doctor - dermatovenerologist → patient".
<b>15.</b>	Processing of state, social and medical information.	Have the necessary knowledge in the field of information technologies used in professional activities.	To be able to use information technologies in the professional field to find, process and analyze new information from different sources and in different languages.	Use information technologies in professional activities.	To be responsible for continuous development of professional knowledge and skills.
<b>16.</b>	Ability to organize and carry out rehabilitation measures and care for patients with diseases of the oral cavity.	To know the basics of rehabilitation measures for patients with dermatological , itching	Be able to carry out professional activities in compliance with safety rules.	To determine the etiological and pathogenetic factors of the appearance and subsequent clinical course of	To bear personal responsibility for possessing knowledge at a sufficient level regarding the basic principles

		(including contagious) and venereal diseases with manifestations in the oral cavity.		the most common skin and venereal diseases in humans.	and methods of prevention and prevention of the spread of skin and venereal diseases.
17.	The ability to legally secure one's own professional activity.	Know the moral and ethical principles of a medical specialist and the rules of professional subordination.	Use the moral and ethical principles of a medical specialist and the rules of professional subordination in practical activities.	To observe the moral and ethical principles of a medical specialist and the rules of professional subordination during professional activity	. To bear personal responsibility for observing the moral and ethical principles of a medical specialist and the rules of professional subordination.

### Program learning outcomes

PR1. To identify and identify leading clinical symptoms and syndromes; according to standard methods, using the previous data of the patient's history, the data of the patient's examination, knowledge about the person, his organs and systems, establish a probable nosological or syndromic preliminary clinical diagnosis of dental disease.

PR2. To collect information about the patient's general condition, evaluate the patient's psychomotor and physical development, the condition of the maxillofacial organs, based on the results of laboratory and instrumental studies, evaluate information about the diagnosis.

PR3. To prescribe and analyze additional (mandatory and optional) examination methods (laboratory, X-ray, functional and/or instrumental) of patients with diseases of the organs and tissues of the oral cavity and maxillofacial region for the differential diagnosis of diseases.

PR4. To determine the final clinical diagnosis in compliance with the relevant ethical and legal norms, by making a reasoned decision and logical analysis of the received subjective and objective data of clinical, additional examination, carrying out differential diagnosis under the control of the head physician in the conditions of a medical institution.

PR6. To plan and implement dental disease prevention measures among the population to prevent the spread of dental diseases.

PR8. To determine the approach, plan, type and principle of treatment of dental disease by making a reasoned decision according to existing algorithms and standard schemes.

PR9. To determine the nature of the regime of work, rest and necessary diet in the treatment of dental diseases on the basis of a preliminary or final clinical diagnosis by making a reasoned decision according to existing algorithms and standard schemes.

PR13. To determine the tactics of providing emergency medical care, using the recommended algorithms, under any circumstances based on the diagnosis of an emergency condition in limited time.

PR14. To analyze and evaluate government, social and medical information using standard approaches and computer information technologies.

PR15. To assess the impact of the environment on the state of health of the population in the conditions of a medical institution according to standard methods.

PR17. To follow a healthy lifestyle, use self-regulation and self-control techniques.

PR18. To be aware of and be guided in one's activities by civil rights, freedoms and duties, to raise the general educational cultural level.

PR19. To comply with the requirements of ethics, bioethics and deontology in their professional activities.  
PR20. To organize the necessary level of individual safety (own and the persons they care about) in case of typical dangerous situations in the individual field of activity.

**Learning outcomes:**

**Integrative final program learning outcomes, the formation of which is facilitated by the academic discipline "Dermatovenereology":**

1. To demonstrate moral and ethical professional rules of the activities of a dermatologist.
2. To know the age features of skin and mucous membranes structure in adult and children.
  - to study the embryogenesis of the skin;
  - to study anatomical and physiological features of skin of different age groups;
  - to know the main risk factors that can affect the development of skin diseases.
3. To demonstrate knowledge on a patient's examination in case of skin and venereal diseases.
  - to know the features of the dermatological examination;
  - to understand the bases of functional methods of examination in case of skin lesions;
4. To know the basic principles and methods of treatment of patients with skin pathology.
  - to know the basic methods of treating skin and venereal patients;
  - to know the theoretical foundations of dermatological alphabet in case of skin lesions;
  - to organize the work on the prevention of skin and venereal diseases;
  - to master practical skills (a method for determining of Nikolsky symptom, Jadasson test, the provide the psoriatic phenom, to examine the patient with the Wood lamp, the detection of pathological fungi, the prescription of dermatological drugs).

**Learning outcomes for the discipline:**

As a result of studying the discipline "Dermatovenereology" the student must know:

- Dermatovenereology - definition, purpose and tasks, historical milestones of dermatovenereology.
- The structure of the dermatovenereological service.
- Anatomical and functional features of skin in children and adults.
- Methods of diagnosis in dermatology (Brock test, diascopy, dermographism, dermatoscopy, luminescent diagnosis etc.).
- Hardware methods of skin examination (phototherapy, UV therapy, cryotherapy etc.).
- Fundamentals of modern methods of skin treatment.

As a result of studying the discipline "Dermatovenereology" the student must be able to:

- conduct physical examination of the patient;
- analyze the results of the examination of a patient with skin and venereal diseases;
- carry out the prevention of skin and venereal diseases.

**2. Information volume of the academic discipline "Dermatovenereology"**

To study the academic discipline 1,5 credits / 45 hours are given.

**Thematic module 1:** Introduction to dermatovenereology.

**Thematic module 2:** Papular dermatoses: Psoriasis. Lichen planus.

**Thematic module 3:** Dermatitis. Eczema. Cheilitis. Examination of patients. Assessment of patients' № 1.

**Thematic module 4:** Mycotic lesions of the skin and mucous membranes. Assessment of patients' № 2.

**Thematic module 5:** Infectious and parasitic diseases of the skin and mucous membranes (pyoderma, tuberculosis, herpes, scabies).

**Thematic module 6:** Acantholytic pemphigus. Erythema multiforme exudative. Protecting the history of the disease.

**Thematic module 7:** Modern epidemiology and classification of STI. Causative agents, pathogenesis and general course of syphilis.

**Thematic module 8:** Gonorrhea (classification), extragenital forms. Dermatological aspects of HIV infection. Credit.

### 3. Structure of academic discipline «Dermatovenerology»:

Theme	Lectures	Practical classes	ISW	Individual work
<b>Thematic module 1:</b> Introduction to dermatovenerology.				
1. Theme 1: Anatomy, histology and physiology of human skin. Elements of skin rashes and methods of check-up and examination of patients with skin pathology. Stomatological features of skin diseases. Examination of patients.	2	3	5	-
<b>Total thematic module 1</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>-</b>
<b>Thematic module 2.</b> Papular skin diseases: Psoriasis. Lichen planus.				
2. Theme 2: Psoriasis. Lichen planus, their manifestations on the mucous membranes of the oral cavity. Diagnostics, differential diagnostics, clinical course, and treatment.	-	3	3	-
<b>Total thematic module 2</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>-</b>
<b>Thematic module 3.</b> Dermatitis. Eczema. Cheilitis. Examination of patients. Assessment of patients, medical history				
3. Theme 3: Dermatitis. Eczema. Examination of patients. Cheilitis. Assessment of patients, medical history	-	3	3	-
<b>Total thematic module 3</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>-</b>
<b>Thematic module 4.</b> Mycotic lesions of the skin and mucous membranes.				
4. Theme 4: Mycotic lesions of the skin and mucous membranes. Assessment of patients' № 2.	-	3	3	-
<b>Total thematic module 4</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>-</b>
<b>Thematic module 5.</b> Infectious and parasitic diseases of the skin and mucous membranes (pyoderma, tuberculosis, herpes, scabies).				
5. Theme 5: Parasitic and infectious skin diseases, their manifestations on the mucous membranes of the oral cavity (pyoderma, tuberculosis, herpes, scabies). Skin manifestations of COVID – 19.	-	3	3	-
<b>Total thematic module 5</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>-</b>
<b>Thematic module 6.</b> Acantholytic pemphigus. Erythema multiforme exudative. Protecting the history of the disease.				
6. Theme 6: Acantholytic pemphigus. Erythema multiforme exudative. Protecting the history of the disease.	2	3	5	-
<b>Total thematic module 6</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>-</b>
<b>Thematic module 7:</b> Modern epidemiology and classification of STI. Causative agents, pathogenesis and general course of syphilis.				
7. Theme 7: Modern epidemiology and classification of STI. Primary, secondary, tertiary and congenital syphilis its manifestations on the mucous membranes of the oral cavity. Diagnostics, clinical features and treatment principles.	2	3	3	-
<b>Total thematic module 7</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>-</b>

<b>Thematic module 8: Gonorrhoea (classification), extragenital forms. Dermatological aspects of HIV infection.</b>				
8. Theme 8: Gonorrhoea (classification), extragenital forms. Dermatological aspects of HIV infection. Examination of patients. AIDS. Epidemiology. Clinical manifestations. Mucocutaneous findings in HIV patients. Management. Prophylactics. Credit.	-	3	5	-
<b>Total thematic module 8</b>	-	<b>3</b>	<b>5</b>	-
<b>Total hours 45/1,5 Credits ECTS</b>	<b>6</b>	<b>24</b>	<b>30</b>	
<b>Final assessment</b>				<b>Credit</b>

#### 4. Thematic outline of lectures

No. p/o	TOPIC	Q-ty of hours
1.	Introduction to dermatology. General questions on etiology and pathogenesis of skin diseases and oral mucosa. Primary and secondary morphological lesions.	2
2.	Bullous and viral dermatoses, their manifestations on the mucous membranes of the oral cavity.	2
3.	General character and etiology of syphilis. Classification and general course of syphilis. Main principles and methods of syphilis therapy.	2
	<b>TOTAL</b>	<b>6</b>

#### 5. Thematic outline of practicals

No. p/o	TOPIC	Q-ty of hours
1.	Anatomy, histology and physiology of human skin. Elements of skin rashes and methods of check-up and examination of patients with skin pathology. Stomatological features of skin diseases. Examination of patients.	3
2.	Papular skin diseases: Psoriasis. Lichen planus, their manifestations on the mucous membranes of the oral cavity.	3
3.	Dermatitis. Eczema. Examination of patients. Cheilitis. Assessment of patients, medical history.	3
4.	Myocotic lesions of the skin and mucous membranes. Curation No. 2.	3
5.	Infectious and parasitic diseases of the skin and mucous membranes (pyoderma, tuberculosis, herpes, scabies). Skin manifestations of COVID – 19.	3
6.	Acantholytic pemphigus. Erythema multiforme exudative. Protecting the history of the disease.	3
7.	Modern epidemiology and classification of STI. Primary, secondary, tertiary and congenital syphilis its manifestations on the mucous membranes of the oral cavity. Diagnostics, clinical features and treatment principles.	3
8.	Gonorrhoea (classification), extragenital forms. Dermatological aspects of HIV infection. Examination of patients. AIDS. Epidemiology. Clinical manifestations. Mucocutaneous findings in HIV patients. Management. Prophylactics. Credit.	3
	<b>TOTAL</b>	<b>24</b>



## 6. Thematic outline of individual work

No. p/o	TOPIC	Hours	Type of control
1.	Main methods of treatment used in dermatology. Formulations for topical administration, indications and contraindications to their use.	5	Continuous control during practical classes
2.	Cytostatics: usage in dermatology, indications, contraindications, possible complications and methods of their prevention.	3	Continuous control during practical classes
3.	Allergy to metals in the dentist's practice. Causes, diagnosis, differential diagnosis, patient management tactics, prevention methods.	3	Continuous control during practical classes
4.	The main manifestations and features of the diagnosis of mycotic lesions of the skin and mucous membranes.	3	Continuous control during practical classes
5	Cutaneous manifestations of COVID-19.	3	Continuous control during practical classes
6	Glucocorticosteroids for systemic and local use: usage in dermatology, indications, contraindications, possible complications and methods of their prevention.	5	Continuous control during practical classes
7	Serological reactions in the diagnosis of syphilis. False positive serological reactions. Errors in the diagnosis of syphilis.	3	Continuous control during practical classes
8	Opportunistic infections and skin stigmata in AIDS, their clinical characteristics.	5	Continuous control during practical classes
	<b>TOTAL</b>	<b>30</b>	

7. **Individual tasks** (an educational medical history of a dermatological patient).

## 8. Methods of training:

**The organization of the educational process is carried out under the credit transfer system**

- The types of students' educational activities according to the curriculum are:

a) lectures;

b) practical classes;

c) independent work of students (ISW).

- Thematic plans of practical classes and ISW provide realization in the educational process of all those that are part of the content modules of the discipline "Dermatovenereology".

- Duration of **practical classes - 3 academic hours** (135 minutes). Practical classes are held in the classroom and clinical departments of the skin and venereal clinic.

## 9. Control methods:

**The method of practical classes organization in discipline "Dermatovenereology" includes:**

1. To carry out the control of the student's ISW in preparation for the current class topic by checking the written execution by the student in the workbook for the corresponding tasks - 15 minutes.

2. Individual oral interview of students, clarification of separate issues of the topic of the current class, answers to students' questions - 60 minutes.

3. For 40 minutes students independently practice practical skills on models. The teacher controls the work of students, gives an explanation.

4. Control of the final knowledge level - 20 minutes.

5. Conducted in the form of an individual oral and written survey, the solution of situational tasks.

After completing the practical lesson, the teacher summarizes their results, gives students the task for independent work, points to the key issues of the next topic and offers a list of literature for self-study.

To implement the aforementioned methodology of organizing practical classes in the first lesson, each student is given a detailed work plan during the course of studying the discipline, as well as conditions are provided for its implementation. This plan includes:

- a list of theoretical questions on discipline;
- a list of practical skills that must be performed by each student during the study of the discipline;
- for individual self-student work (ISW) presentations are used.

For the implementation of the above-stated methodology of practical classes organization at the first lesson, each student is provided with a detailed plan of work for the period of discipline studying, as well as conditions for its implementation. This plan includes:

- list of theoretical knowledge on disciplinewhich must be mastered by the student;
- list of practical skills that each student must complete during the study of discipline;
- algorithms for performing basic manipulations;
- workbook for independent work of the student (ISW) in preparation for practical classes, in which it is necessary to write in writing tasks to each topic.

**Independent work of students (IWS)** provides:

- preparation for practical classes;
- self work on topics that are not part of the pre-planned tutorial lessons, but are monitored and evaluated by the teacher at the time of the final control.

**10. Continuous control** is carried out during each practical according to the specific objectives for each topic.

10.1. Criteria of assessment of student's continuous educational activity.

The learned topic of each thematic module covered during semester is assessed with marks per the traditional (national) 4-graded scale, which are then converted into points. It takes into account all types of work provided by the discipline program. **The student should receive an assessment from each topic.** Forms of assessment of current activities should be standardized and include the control of theoretical and practical training, which are then converted into points. At each practical class the student answers questions on the topic of practical classes, standardized questions, knowledge of which is necessary to understand the current topic of independent work, which are relevant to the current occupation; demonstrates knowledge and skills of practical skills in accordance with the topic of practical class.

**11.** The form of a final control of theoretical and practical material learned by the student according to the discipline program is a **semester credit**.

**12. Semester credit** – is form of final control based on the mastering level of student on educational material, exclusively based on results of all types of academic works performed by a student. Semester credit calculated is based on the results of continuous control. The semester credit on discipline is conducted after the completion of its study, before the beginning of the examination session.

**13. Scheme of allocation and distribution of points received by students:**

*For the disciplines with the final controle in a form of credit:*

**The maximum number of points** a student can gain for continuous educational activity is 200 points.

**The minimum number of points** a student can gain for continuous educational activity is 120 points.

**The calculation of the number of points** is made on the basis of the student's marks on the 4-point scale (national) during the study of discipline, by calculating the arithmetic mean (CA) rounded to two decimal places. The resulting value is converted into a score on a multi-point scale in the following way:

$$x = \frac{CA \times 200}{5}$$

## Recalculation of mean mark for the continuous educational activity into multi-grade scale:

4-point scale	200-point scale	4-point scale		200-point scale	4-point scale		200-point scale
5	200	4.45	178	3.92	157	3.37	135
4.97	199	4.42	177	3.89	156	3.35	134
4.95	198	4.4	176	3.87	155	3.32	133
4.92	197	4.37	175	3.84	154	3.3	132
4.9	196	4.35	174	3.82	153	3.27	131
4.87	195	4.32	173	3.79	152	3.25	130
4.85	194	4.3	172	3.77	151	3.22	129
4.82	193	4.27	171	3.74	150	3.2	128
4.8	192	4.24	170	3.72	149	3.17	127
4.77	191	4.22	169	3.7	148	3.15	126
4.75	190	4.19	168	3.67	147	3.12	125
4.72	189	4.17	167	3.65	146	3.1	124
4.7	188	4.14	166	3.62	145	3.07	123
4.67	187	4.12	165	3.57	143	3.02	121
4.65	186	4.09	164	3.55	142	3	120
4.62	185	4.07	163	3.52	141	Less than 3	Insufficient
4.6	184	4.04	162	3.5	140		
4.57	183	4.02	161	3.47	139		
4.52	181	3.99	160	3.45	138		
4.5	180	3.97	159	3.42	137		
4.47	179	3.94	158	3.4	136		

The assessment of *individual work of students*, foreseen by the topic along with classroom work, is carried out during continuous control conducted at the relevant classroom lessons.

Assessment of topics, pertaining only to the individual work and those not included in the topics of classroom lessons, is performed at final module control.

**Assessment of a discipline:** the mark for a discipline is calculated as the sum of marks for continuous educational activity (not less than 72) and the semester exam (not less than 50).

Conversion of points for a discipline into the ECTS scale rates and 4-point scale (traditional). ECTS scores on the 4-point scale are not converted and vice versa.

A, B, C, D, E rankings are held by dean's office and transferred to the department in ranking protocols.

The number of points for a discipline, which a student has gained, is converted into the 4-point scale as follows:

Points for discipline	Mark per the 4-point scale
From 170 to 200 points	«5»
From 140 to 169 points	«4»
From 139 points to the minimum number of points which a student should gain	«3»
Less than the minimum number of points which a student should gain	«2»

The ECTS marks are not converted into a traditional scale because the ECTS scale and the four-point scale are independent.

### 14. Methodological provision of the elective course "Cosmetology":

- Methodical recommendations of practical classes for teachers - according to the number of topics.

- Methodical recommendations for the organization of independent work of students in preparation for practical classes - according to the number of topics;

#### 14.1. List of questions brought to the final (continuous) control:

##### **General part:**

1. Brief historical outline of the history of dermatovenerology. Ukrainian and world school of dermatologists.
2. Anatomy and histology of normal skin. Additional skin elements: hair, hair follicles, nails.
3. Skin functions: protective, barrier, thermal-regulating, secretory, excretory, resorptive, breathing (respiratory), sensitive, metabolic etc.
4. Histomorphological skin changes: alteration, exudation, proliferation degeneration, acanthoma, acantholysis, dyskeratosis (hyper-, parakeratosis), granulosis.
5. Primary and secondary morphological elements, their description and examples of diseases at which these elements are met.
6. True and false polymorphism of rash.
7. Methods of dermatological patient examination. Stages of diagnostic process.
8. Special dermatological methods of patient examination (palpation, diascopy, isomorphic skin reaction test, dermatography, pilomotor reflex, allergic skin tests).
9. Laboratory diagnostic methods (general and specific).
10. Basic principles of skin diseases treatment.
11. Basic methods of local therapy in dermatology. Treatment of dermatoses in adults and children using therapeutic resorts and physiotherapeutic methods. General objective and subjective symptoms in diagnostics of skin diseases.
12. Skin diseases as the manifestation of pathology of the whole organism.

#### 14.2. *Special part*

##### **Dermatology**

1. Psoriasis: aetiology, clinical features, differential diagnosis and treatment.
2. Lichen planus: aetiology, clinical features, differential diagnosis and treatment.
3. Parasitic skin diseases. Pediculosis: aetiology, clinical presentation and treatment. Varieties of demodicosis, its differential diagnostics, treatment. Clinical features, diagnostics, treatment and prevention of scabies.
4. Eczema: classification, clinical features, differential diagnostics and treatment of eczema according to its stages.
5. Simple contact dermatitis or artificial dermatitis: classification, clinical features and treatment.
6. Allergic contact dermatitis, toxicodermatosis. Clinical presentation and treatment.
7. Atopic dermatitis: clinical presentation, differential diagnostics and treatment.
8. Pyoderma: classification, clinical presentation, diagnostics and treatment.
9. Fungal skin diseases. Keratomycosis: aetiology, clinical presentation, differential diagnostics and treatment. Epidermophytosis as a kind of dermatomycoses aetiology, classification, clinical presentation, diagnostics and treatment. Rubrophytosis as a kind of epidermophytosis, classification and treatment. Trichophytosis as a kind of dermatomycoses: classification, clinical presentation, diagnostics and treatment. Clinical manifestations of favus. Their diagnostics and treatment. Candidiasis of skin and mucous membranes. Clinical presentation and treatment.
10. Vesicular dermatoses. True vesiculitis (vesiculitis vulgaris): classification, clinical features and treatment. Duhring dermatosis (dermatitis herpetiformis): clinical features, differential diagnostics and treatment.
11. Viral skin diseases. Simple and zoster herpes: clinical features, differential diagnostics.
12. Polymorphic exudative erythema (Gerber's syndrome): clinical presentation and differential diagnostics.
13. Cheilitis: classification, clinical course, differential diagnostics and treatment

##### **Venereology**

1. Causative agent of syphilis. Its characteristics. Classification and general course of syphilis.
2. Immunity at syphilis. Superinfection. Reinfection.
3. Primary syphilis period, its clinical features and diagnostics. Chancre. Atypical forms of chancre. Clinical presentation. Complications of hard chancre. Differential diagnostics of hard chancre.
4. Clinical presentation of secondary syphilis on skin and mucous membranes.
5. General characteristics of tertiary syphilis.
6. Nodular and gummatous syphilis, their clinical presentation and differential diagnostics.
7. Syphilis of internal organs.
8. Early congenital syphilis. Late congenital syphilis.
9. Serological tests and tests at syphilis diagnostics.
10. Principles and methods of syphilis treatment.
11. Criteria testifying recovery and taking off of patients from dispensary follow-up list.
12. General classification of gonorrhoea. Classification. Clinical presentation and diagnostics. Complications of gonorrhoeal urethritis. Treatment of gonorrhoea. Criteria testifying recovery.
13. AIDS. Aetiology. Clinical presentation. Manifestations on skin and mucous membranes. Prevention. Opportunistic infections and AIDS, their clinical presentation.

### **15. List of practical skills in dermatology, which a student should master during the study**

1. Methods of physical examination of a patient
2. Identification of squama, hair, nails and pathological fungi.
3. Examination of a patient using Wood's lamp.
4. Balzer test.
5. Identification of psoriatic phenomena.
6. Methods of application of local remedies, lotions, pastes, ointments etc.
7. Method of UV skin exposure at psoriasis and other dermatoses.
8. Method of identifying *Treponema Pallidum* and gonococcus. Method of Jadassohn test version.
9. Method of Nikolsky symptom defining.
10. Method of Poslelov symptom defining.
11. Writing records in the medical history of an in-door patient.
12. Writing out of main dermatological prescriptions.

### **16. List of recommended literature:**

#### **Basic academic literature**

1. Gawkrödger, David, Ardern-Jones, Michael R.: *Dermatology: An Illustrated Colour Text.* (Eng). 2023.
2. *Dermatology and Venereology: Textbook.* Vyd. 2-he / V. I. Stepanenko ta in. Kyiv : Medytsyna, 2020. 336 p.
3. Stepanenko V.I. *Dermatology. Venereology. Textbook / V.I. Stepanenko, M.M. Shupenko, O.O. Syzon [et al.] - Kyiv.: KIM, 2013. – 560 p., 257 pic.*
4. *Dermatolohiia. Venerolohiia : pidruchnyk / L. A. Bolotna ta in. ; za red. prof. T. V. Sviatenko, prof. Svystunova I. V. Vinnytsia : Nova Knyha, 2021. 655 s. : rys. Bibliohr. v kintsi rozd.*
5. *Skin and venereal diseases. Textbook / V.H.Kolyadenko, V.I. Stepanenko, P.V.Fedorych, S.I.Sklyar. – K.: Nova knyha, 2006. – 424 p.*
6. Syzon O. O. *Dermatolohiia, venerolohiia : posib. dlia stud., mahistriv vyshchych navch. zakl. / za zah. red. O. O. Syzon. Lviv : TzOV «Druk Zakhid», 2017. 548 p.*
7. Syzon O.O. *Dermatolohiia, venerolohiia v pytanniakh ta vidpovidiakh : posib. dlia stud., mahistriv vyshchych navch. zakl. / za zah. red. O.O. Syzon. Lviv : TzOV «Druk Zakhid», 2017. 180 p.*

#### **Additional academic literature**

1. *Atlas of clinical dermatology. 3<sup>rd</sup> edn / DuVivier A. // Edinburg: Churchill Livingstone; 2005. – 381p.*
2. *Bologna J.L. Dermatology / J.L. Bologna, J.L. Jorizzo, R.P. Rapini, eds. - London: Mosby; 2003. – 583p.*

3. Burns T. Rook's textbook of dermatology. 7th edn. / T. Burns, S. Breathnach, N. Cox [et al.] - Oxford: Blackweii Scientific, 2004. – 548p.
4. Dermatopathology / W. Kempf, M. Hantschke, H. Kutzner, W. H.C. BurgdorfL. – Germany: Steinkopff Verlag, 2008. – 299 p.
5. Dermatopathology / W. Kempf, M. Hantschke, H. Kutzner, W. H.C. BurgdorfL. – Germany: Steinkopff Verlag, 2008. – 299 p.
6. Finlay A.Y. Specialist training in dermatology / A.Y. Finlay, M.U. Chowdhury. - London: Mosby; 2007. – 205 p.
7. Fry L. An atlas of psoriasis / L.Fry. – London, New York: Taylor and Francis, 2004. – 99p.
8. McKee P.H. Pathology of the skin. 3rd edn. / P.H. McKee, E. Calonje, S. Granter. – Philadelphia: Lippincott, 2005. – 387 p.
9. Mills S.E. Histology for Pathologists. - 3rd ed. / S. E. Mills. – N.-Y. : Lippincott Williams & Wilkins, 2007. – 1148 p.
10. Textbook of dermatopathology / R.L. Barnhill. – New York: McGraw-Hill, 1998.- 363 p.

### **Methodical literature**

Methodical bases of preparation and conducting classes in medical higher educational establishments having III-IV accreditation levels according to the topic are designed at higher educational establishments under the “Statue of department”.

### **16. Information resources:**

- [www.medlit.pp.ua](http://www.medlit.pp.ua)
- [www.intranet.tdmu.edu.ua](http://www.intranet.tdmu.edu.ua)