

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

Department of Dermatology, Venereology



**WORKING PROGRAM OF DISCIPLINE OK 28
“DERMATOLOGY, VENEREOLOGY”**

**for training of specialists of the second (master's) level of higher education
field of knowledge 22 "Healthcare"
specialty “222 “Medicine”**

IV year - Medical Faculty

LVIV - 2023

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 <p>APPROVED BY First Pro-rector for scientific and pedagogical work assoc. professor I.I. Solonynko</p> <p><i>I.I. Solonynko</i> "29" 08 2023</p>

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<p>Discussed and approved at the meeting of Department of Dermatology, Venereology Minutes No. <i>78</i> as of " <i>20</i> " <i>April</i> 2023 Head of the Department  <i>O.O. Syzon</i> MD, prof. Syzon O.O.</p>	<p>Approved by the field-specific methodological commission for therapeutic discipline Minutes No. <i>3</i> as of " <i>04</i> " <i>May</i> 2023 Head of field-specific methodological commission <i>O.M. Radchenko</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,
VENEREOLGY ” SPECIALTY “222 “MEDICINE”
FOR 2023-2024 ACADEMIC YEAR**

No	Content of changes (additions)	Minutes of meeting, date	Notes
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	

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



Syzon O.O.

Program of the discipline “Dermatology, Venereology” for the 4th year students (masters), who study the specialty 222 “Medicine” 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, G.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 222 "Medicine", 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 Medicine in the specialty 222 "Medicine" is concluded on the basis of the educational and professional program "Medicine" of the second (master's) level of higher education in the specialty 222 "Medicine" 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.Feb.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		ISW		
		Lectures	Practical classes			
Discipline: "Dermatovenereology": Thematic modules - 7	3 credits/ 90 hours	8	37	45	IV year (VII or VIII semesters)	Differential credit
<i>Thematic module 1</i>	0,46 credits / 14 hours	2	6	6	-	
<i>Thematic module 2</i>	0,53 credits / 16 hours	-	7	9	-	
<i>Thematic module 3</i>	0,27 credits / 8 hours	2	3	3	-	
<i>Thematic module 4</i>	0,66 credits / 20 hours	2	6	12	-	
<i>Thematic module 5</i>	0,4 credits / 12 hours	2	6	4	-	
<i>Thematic module 6</i>	0,43 credits / 13 hours	-	6	7	-	
<i>Thematic module 7</i>	0,23 credits / 7 hours	-	3	4	-	

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):

GC 1. The ability to abstract thinking and analysis;

GC 2. The ability to learn and acquire modern knowledge.

GC 3. Ability to apply knowledge in practical situations.

GC 4. Knowledge and understanding of the subject area and understanding of the professional activities.

GC 5. Ability to adapt and act in a new situation.

GC 6. Ability to take a reasonable decisions

GC 7. Ability to work in a team.

GC 8. Interpersonal skills.

GC 10. Skills in the use of information and communication technologies.

GC 11. Ability to search, process and analyze information from various sources.

GC 12. Determination and persistence in relation to assigned tasks and assumed responsibilities.

- *special (professional, substantive) (SC):*

SC 1. Patient interviewing skills, skills of examination of the patient and analyze clinical data.

SC 2. Ability to determine the required list of laboratory and instrumental research and evaluation of their results.

SC 3. Ability to establish a preliminary and clinical diagnosis of the disease.

SC 4. Ability to determine the required regime of work and rest in the treatment and prevention of dermatological diseases.

SC 5. Ability to determine the principles of nutrition in treatment and prevention of diseases.

SC 6. Ability to determine the principles and nature of treatment and prevention of skin and venereal diseases.

SC 7. Ability to diagnose emergency conditions in dermatovenerology.

SC 8. Ability to determine the tactics of emergency medical care.

SC 10. Skills of medical manipulations.

SC 13. Ability to conduct sanitary and preventive measures.

SC 14. Ability to plan and carry out preventive and anti-epidemic measures against infectious diseases.

SC 15. Ability to carry out a work capacity examination.

SC 16. Ability to keep medical records, including electronic forms.

SC 17. Ability to assess the impact of the environment, socio-economic and biological determinants on the health of the individual, family, population.

SC 24. Compliance with ethical principles when working with patients.

SC 25. Observance of professional and academic integrity, bear responsibility for the reliability of the obtained scientific results.

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

№	Competency	Knowledge	Abilities	Communication	Autonomy and responsibility
<i>General competencies</i>					
1	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.
2	Ability to learn and master modern knowledge.	Know the peculiarities of the professional activity of a cosmetologist.	To be able to carry out professional activities that require updating and integration of knowledge.	Ability to search, process and analyze information from various sources.	To be responsible for the timely acquisition of knowledge.
3	Ability to apply knowledge in practical situations.	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.
4	Ability and understanding of subject area and profession.	Know the methods of realizing knowledge in solving practical problems.	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.

5	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.
6	Ability to make informed decisions.	Know the methods of implementing knowledge in identifying, setting and solving problems of professional activity.	Be able to analyze professional information, make informed decisions, acquire modern knowledge.	Form a communication strategy in professional activities.	To be responsible for the validity of the decisions made.
7	Ability to work in a team.	Know how to collaborate on teamwork.	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.
8	Ability to interpersonal interaction.	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.
10	Ability to use information and communication technologies.	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.
11	Ability to search, process and analyze information from various sources.	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.
12	Determination and persistence in relation to assigned tasks and assumed responsibilities.	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	To be responsible for the reasonableness of the decisions taken to solve problems of professional activity.

				professional activity.	
<i>Special (professional competencies)</i>					
1	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.
2	The ability to determine the necessary list of laboratory and instrumental studies and to evaluate the evaluation of their results.	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.
3	Ability to establish a preliminary and clinical diagnosis.	Know the theoretical foundations of the dermatological alphabet for skin lesions.	Be able to establish the correct preliminary and clinical diagnoses based on the analysis of the obtained results.	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 the stages of examination of a dermatological patient and the conduct of additional examination methods.
4	The ability to determine the necessary regime of work and rest in the treatment and prevention of dermatological diseases.	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	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.

		dermatovenerologic al patients.			
5	The ability to determine the nature of nutrition in the treatment and prevention of cosmetological diseases.	Know the main nutritional regimes in the treatment and prevention of dermatological diseases.	Be able to prescribe an appropriate diet for the treatment and prevention of dermatological diseases.	Determine the tactics of managing a patient with skin and venereal diseases	. To be responsible for the validity of the decisions made.
6	Ability to determine the principles and nature of treatment and prevention of cosmetological diseases.	To know the basic treatment principles and methods of patients with skin pathology. To know the basic principles of cosmetological diseases prevention.	To be able to characterize the basic principles and methods of treatment of patients with skin and venereal diseases. To know the basic principles of cosmetological diseases prevention.	To understand the importance of knowing the basic principles and tretment methods of patients with oral mucosal lesions in case of cosmetological l diseases. To know the dermatological functional methods of examination.	To take personal responsibility for the knowledge of the basic principles and methods of treating patients with skin and venereal diseases.
7	Ability to diagnose emergency conditions in dermatovenerology .	Know the main manifestations, methods of diagnosis and algorithms of action in case of emergency conditions in dermatovenerological practice.	To be able to diagnose conditions that require emergency medical care in the practice of a dermatovenerologist.	Skills of conducting safe activities, the ability to evaluate and ensure the quality of work performed.	To be responsible for the validity of the decisions made.
8	Ability to determine tactics and provide emergency medical care.	Know the main manifestations, methods of diagnosis and algorithms of action in case of emergency conditions in dermatovenerological practice.	Be able to provide emergency medical care in the practice of a dermatovenerologist.	Skills of conducting safe activities, the ability to evaluate and ensure the quality of work performed.	To be responsible for the validity of the decisions made.
10	Ability to perform medical manipulations.	Know the methods and techniques of diagnostic and therapeutic manipulations that can be used in the work of a dermatovenerologis t.	To have the methods and techniques of conducting diagnostic and therapeutic manipulations that can be used in the work of a dermatovenerologist.	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.
13	Ability to carry out sanitary and hygienic and preventive measures.	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.
14	Ability to plan and carry out preventive and anti-epidemic measures regarding infectious diseases.	Know the basics of prevention of skin (including contagious) and venereal diseases.	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.	Organization of work on the prevention of skin and venereal diseases in various dispensary groups.	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.
15	Ability to conduct an examination of work capacity.	To know the main criteria for determining the degree of limitation of life activity, type, degree and duration of incapacity to work.	Determine the presence and degree of restrictions on vital activities, the type, degree and duration of incapacity with the preparation of relevant documents.	Determine the tactics of managing a patient with skin and venereal diseases.	To be responsible for the validity of the decisions made.
16	Ability to maintain medical documentation, including electronic forms.	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".

17	The ability to assess the impact of the environment, socio-economic and biological determinants on the state of health of an 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.
24	Compliance with ethical principles when working with patients.	Know the basic provisions of The ethical code of the dermatologist	Use in practice of the Ethical code of the dermatologist	Keep in touch with patients and colleagues according to the Ethical Code of the dermatologist	To have personal responsibility for compliance with the provisions of the practice The ethical code of the dermatologist.
25	Observance of professional and academic integrity, bear responsibility for the reliability of the obtained scientific results.	The ability to work autonomously, demonstrate skills and pose and solve problems, guided by public rights, responsibilities with continuous improvement of the professional level.	To be able to carry out professional activities that require updating and integration of knowledge.	Skills of conducting safe activities, the ability to evaluate and ensure the quality of work performed.	To be responsible for the quality of the performance of professional tasks.

Programme Results (PR) of the Course:

PR1. To have a thorough knowledge of the structure of professional activity. To be able to carry out professional activities that require updating and integration of knowledge. To be responsible for professional development, the ability for further professional training with a high level of autonomy.

PR2. Understanding and knowledge of fundamental and clinical biomedical sciences, at a level sufficient for solving professional tasks in the field of health care.

PR3. Specialized conceptual knowledge, which includes scientific achievements in the field of health care and is the basis for conducting research, critical understanding of problems in the field of medicine and related interdisciplinary problems.

PR4. To identify leading clinical symptoms and syndromes; according to standard methods, using preliminary data of the patient's history, data of the patient's examination, knowledge about the person, his organs and systems, to establish a preliminary clinical diagnosis of the disease.

PR5. To collect complaints, history of life and diseases, evaluate psychomotor and physical development of an adult patient and child, the state of organs and body systems, based on the results of laboratory and instrumental studies, evaluate information about the diagnosis, taking into account the age of the patient.

PR6. To establish a final clinical diagnosis by making a reasoned decision and analyzing the received subjective and objective data of clinical, additional examination, carrying out differential diagnosis, observing the relevant ethical and legal norms, under the control of the head physician in the conditions of a health care institution .

PR7. To prescribe and analyze additional (mandatory and optional) examination methods (laboratory, functional and/or instrumental) of patients with diseases of organs and body systems for differential diagnosis of diseases.

PR8. Determine the leading clinical syndrome or determine what causes the severity of the patient's condition (according to list 3) by making a reasoned decision and assessing the person's condition under

any circumstances (in the conditions of a health care facility and outside of it, including in conditions of an emergency and hostilities, in field conditions, in conditions of lack of information and limited time).

PR9. To determine the nature and principles of treatment (conservative, operative) of patients with diseases, taking into account the age of the patient, in the conditions of a health care institution, outside its borders and at the stages of medical evacuation, including in field conditions, on the basis of a preliminary clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes, in case of the need to expand the standard scheme, be able to substantiate personalized recommendations under the control of the head physician in the conditions of a medical institution.

PR10. To determine the necessary mode of work, rest and nutrition on the basis of the final clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes.

PR14. Determine tactics and provide emergency medical care in emergency situations (according to list 3) in limited time conditions according to existing clinical protocols and standards.

PR17. Perform medical manipulations in the conditions of a medical institution, at work and at the patient's home based on a previous clinical diagnosis and/or indicators of the patient's condition by making a reasoned decision, observing the relevant ethical and legal norms.

PR18. To determine the state of functioning and limitations of a person's vital activities and the duration of incapacity for work with the preparation of relevant documents, in the conditions of a health care institution, based on data on the disease and its course, peculiarities of a person's professional activity, etc. Maintain medical documentation regarding the patient and the contingent of the population on the basis of regulatory documents.

PR19. To plan and implement a system of anti-epidemic and preventive measures regarding the occurrence and spread of diseases among the population.

PR21. To search for the necessary information in the professional literature and databases of other sources, analyze, evaluate and apply this information.

PR22. To apply modern digital technologies, specialized software, statistical methods of data analysis to solve complex problems of health care and research work.

PR23. To assess the impact of the environment on the state of human health to assess the state of morbidity of the population.

PR24. To organize the required 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 phenomenon, 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 3 credits / 90 hours are given.

Thematic module 1: Propedeutics of dermatovenereology. Papular dermatoses.

Thematic module 2: Parasitic and infectious skin diseases

Thematic module 3: Mycotic skin diseases.

Thematic module 4: Allergodermatoses and bullous-vesicular skin diseases.

Thematic module 5: Modern epidemiology and classification of STI. Causative agents, pathogenesis and general course of syphilis.

Thematic module 6: Gonorrhoea and non- gonorrhoea urethritis. Dermatological aspects of HIV infection.

Thematic module 7: Defence of the educational medical history of a dermatological patients. Practical skills. Differential credit.

3. Structure of academic discipline «Dermatovenereology»:

Theme	Lectures	Practical classes	ISW	Individual work
Thematic module 1: Propedeutics of dermatovenereology. Papular diseases.				
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.	2	3	3	-
2. Theme 2: Psoriasis. Lichen planus. Diagnostics, differential diagnostics, clinical course, and treatment.		3	3	
Total thematic module 1	2	6	6	-
Thematic module 2. Parasitic and infectious skin diseases				
3. Theme 3: Pyodermas. The principle of their differentiation, prevention and treatment.	-	2	3	-
4. Theme 4: Skin tuberculosis. Etiopathogenesis, clinical features, tactics of therapy and prevention.	-	3	3	
5. Theme 5: Parasitic skin diseases, scabies, pediculosis, demodicosis. The principle of their differentiation, prevention and treatment.	-	2	3	
Total thematic module 2	-	7	9	-
Thematic module 3. Mycotic skin diseases				
6. Theme 6: Fungal diseases of the skin and mucous membranes. Clinical manifestations, laboratory diagnostics, therapy and prevention. Curation No.1.	2	3	3	-
Total thematic module 3	2	3	3	-
Thematic module 4. Allergodermatoses and bullous-vesicular skin diseases				

7. Theme 7: Allergodermatoses. Clinical manifestations, methods of diagnosis and treatment.		3	4	-
8 Theme 8: Bullous dermatoses: modern aspects of etiopathogenesis, clinical manifestations, principles of differentiation, diagnosis and therapy. Viral dermatoses. Skin manifestations of COVID – 19. Curation No.2.	2	3	8	
Total thematic module 4	2	6	12	-
Thematic module 5. Modern epidemiology and classification of STI. Causative agents, pathogenesis and general course of syphilis				
9. Theme 9: Clinical and serological specific features of primary syphilis. Immunity. Reinfection. Superinfection. Serodiagnosis. Secondary period of syphilis and its differentiation.	2	3	4	-
10 Theme 10: Tertiary and congenital syphilis. Diagnostics, clinical features and treatment principles.		3		
Total thematic module 5	2	6	4	-
Thematic module 6. Gonorrhoea and non-gonorrhoeal urethritis. Dermatological aspects of HIV infection				
11. Theme 11: Specific features of dysfunction of urinary tract caused by gonococcus, trichomonas, chlamydia. Principles of treatment and prevention.	-	3	3	-
12. Theme 12: HIV-AIDS in Ukraine. Main types of their clinical course. Dermatological aspects of this problem. Basic organizational and legal frameworks to control its further spreading. Principles of treatment and prevention.		3	4	
Total thematic module 6	-	6	7	-
Thematic module 7: Defence of the educational medical history of a dermatological patients. Practical skills. Differential credit.				
13. Theme 13: Practical skills in writing medical history of a dermatological patient. Protection of medical history. Practical skills in dermatovenerology. Credit.	-	3	4	-
Total thematic module 7	-	3	4	-
Total hours 90/3,0 Credits ECTS	8	37	45	-
Final assessment				Differential credit

4. Thematic outline of lectures

No. p/o	TOPIC	Q-ty of hours
1.	Introduction to dermatovenerology. History dermatology. Psoriatic disease.	2
2.	Fungal diseases of the skin and mucous membranes.	2
3.	Allergodermatoses. Bullous dermatoses. Viral dermatoses.	2
4.	WHO classification of sexually transmitted infectious diseases. General scheme of syphilis course and its laboratory diagnostics. Primary and secondary syphilis period. Tertiary and congenital syphilis. Principles of treatment and prevention.	2
	TOTAL	8

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.	3
2.	Psoriasis. Lichen planus. Diagnostics, differential diagnostics, clinical course, and treatment.	3
3.	Pyodermas. The principle of their differentiation, prevention and treatment.	2
4.	Skin tuberculosis. Etiopathogenesis, clinical features, tactics of therapy and prevention.	3
5.	Parasitic skin diseases, scabies, pediculosis, demodicosis. The principle of their differentiation, prevention and treatment.	2
6.	Fungal diseases of the skin and mucous membranes. Clinical manifestations, laboratory diagnostics, therapy and prevention. Curation No.1.	3
7.	Allergodermatoses. Clinical manifestations, methods of diagnosis and treatment.	3
8.	Bullous dermatoses: modern aspects of etiopathogenesis, clinical manifestations, principles of differentiation, diagnosis and therapy. Viral dermatoses. Skin manifestations of COVID – 19. Curation No.2.	3
9.	Clinical and serological specific features of primary syphilis. Immunity. Reinfection. Superinfection. Serodiagnosis. Secondary period of syphilis and its differentiation.	3
10.	Tertiary and congenital syphilis. Diagnostics, clinical features and treatment principles.	3
11.	Specific features of dysfunction of urinary tract caused by gonococcus, trichomonas, chlamydia. Principles of treatment and prevention.	3
12.	HIV-AIDS in Ukraine. Main types of their clinical course. Dermatological aspects of this problem. Basic organizational and legal frameworks to control its further spreading. Principles of treatment and prevention.	3
13.	Practical skills in writing educational medical history of a dermatological patient. Protection of medical history. Practical skills in dermatovenereology. Ccredit.	3
TOTAL		37

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.	3	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.	Antibiotics for systemic and topical therapy of bacterial skin diseases. Differentiated approach in selection, indications, contraindications, possible complications. The problem of resistance.	3	Continuous control during practical classes
4.	Modern diagnostic methods of skin tuberculosis.	3	Continuous control during practical classes
5.	Means of prevention and treatment of parasitic skin diseases.	3	Continuous control during practical classes
6	Deep mycoses (opportunistic and endemic): etiology, clinical manifestations, methods of diagnosis and effective treatment.	3	Continuous control during practical classes

7.	Atopic dermatitis: clinic, diagnosis, treatment, features of local and systemic therapy and care for atopic skin.	4	Continuous control during practical classes
8.	Glucocorticosteroids for systemic and local use: usage in dermatology, indications, contraindications, possible complications and methods of their prevention.	4	Continuous control during practical classes
9.	Cutaneous manifestations of COVID-19.	4	Continuous control during practical classes
10.	Serological reactions in the diagnosis of syphilis. False positive serological reactions. Errors in the diagnosis of syphilis.	4	Continuous control during practical classes
11.	Modern features of gonococcal infection. Principles of diagnosis, therapy and prevention.	3	Continuous control during practical classes
12.	Opportunistic infections and skin stigmata in AIDS, their clinical characteristics.	4	Continuous control during practical classes
13.	Providing dermatovenereological primary medical care in emergency situations.	4	Continuous control during practical classes
TOTAL		45	

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 - 2 academic hours** (90 minutes), **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 – 10 - 15 minutes.

2. Individual oral interview of students, clarification of separate issues of the topic of the current class, answers to students' questions – 80 - 90 minutes.

3. For 65 - 80 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 – 25 - 40 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. The learned topic of each thematic module covered during semester is assessed with marks per the traditional 4-graded scale: 5-points, 4-points, 3-points, 2-points. Assessment forms of continuous educational activity must be standardized and include control of theoretical and practical training.

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 for further conversion of marks into points on a multi-point (200-point) scale.

11. Form of the final control:

Semester differential credit - This is a form of final control, which is to assess the student's mastering of educational material from the discipline on the basis of current control and completed individual test tasks at the last lesson.

12. Scheme of allocation and distribution of points received by students:

For the disciplines with the final examination in a form of Semester differential credit is defined as the sum of points for the current educational activity (not less than 72) and marks for the performance of individual test tasks in the last lesson (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.

Points of students studying in one specialty, taking into account the number of points scored from the discipline, are ranked on the ECTS scale as follows:

ECTS mark	Statistical indicator
A	The best 10 % of students
B	The following 25 % of students
C	The following 30 % of students
D	The following 25 % of students
E	The last 10 % of students

A, B, C, D, E rankings are awarded to students of this course, who study in one specialty and successfully complete the study of discipline. Students rated FX, F ("2") are not included in the list of ranked students. Students with an FX mark after reassembly automatically receive a "E" mark.

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.

Objectivity of evaluation of students' educational activity is checked by statistical methods (correlation coefficient between ECTS assessment and national scale assessment).

13. Methodological provision of the discipline "Dermatovenereology":

- 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;

13.1. 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. Epidermis as the skin outer layer. Its structure and functions. Derma or namely skin, its structure and functions. Characteristics of hypodermis (subcutaneous - living tissue). Blood and lymphatic system of skin. Neuro-receptor skin system. Glandular skin system (head and sebaceous glands). Its structure and functions. 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.

13.2. *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. Syphilis of internal organs.
7. Early congenital syphilis. Late congenital syphilis.
8. Serological tests and tests at syphilis diagnostics.
9. Principles and methods of syphilis treatment.
10. Criteria testifying recovery and taking off of patients from dispensary follow-up list.
11. General classification of gonorrhea. Classification. Clinical presentation and diagnostics. Complications of gonorrheal urethritis. Treatment of gonorrhea. Criteria testifying recovery.
12. Affection of urogenital organs due to trichomoniasis. Clinical presentation, course and complications.
13. Non-gonorrhoea urogenital organs affection.
14. AIDS. Aetiology. Clinical presentation. Manifestations on skin and mucous membranes. Prevention. Opportunistic infections and AIDS, their clinical presentation.

14. 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.

15. 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*

Additional academic literature

1. Atlas of clinical dermatology. 3rd 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. Koljadenko V.Gh., Fedorenko O.Je. Pyoderma. Textbook for student selfeducation. (Ukr). K.:NMU. 2006:23.
9. Koljadenko V.Gh., Fedorenko O.Je., Andrashko Ju.V. Mycoses. Textbook for student selfeducation. (Ukr). K.:NMU. 2005:24.
10. McKee P.H. Pathology of the skin. 3rd edn. / P.H. McKee, E. Calonje, S. Granter. – Philadelphia: Lippincott, 2005. – 387 p.
11. Mills S.E. Histology for Pathologists. - 3rd ed. / S. E. Mills. – N.-Y. : Lippincott Williams & Wilkins, 2007. – 1148 p.
12. 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
- www.intranet.tdmu.edu.ua