

**MINISTRY OF HEALTH OF UKRAINE
DANYLO HALYTSKY LVIV NATIONAL
MEDICAL UNIVERSITY
DEPARTMENT OF DERMATOLOGY, VENEREOLOGY**



**WORKING PROGRAM OF ACADEMIC DISCIPLINE
DERMATOLOGY, VENEREOLOGY**

BB 1.54 Elective course «COSMETOLOGY»

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

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

Department of Dermatology, Venereology



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

**WORKING PROGRAM OF ELECTIVE DISCIPLINE
«COSMETOLOGY» BB 1.54**

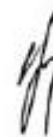
**for training of specialists of the second (master's) level of higher
education**

**field of knowledge 22 "Healthcare"
specialty "222 "Medicine"**

IV year - Medical Faculty

<p>Discussed and approved at the meeting of Department of Dermatology, Venereology Minutes No. <u>14</u> as of "<u>20</u>" <u>April</u> 2023 Head of the Department  MD, prof. Syzon O.O.</p>	<p>Approved by the field-specific methodological commission for therapeutic discipline Minutes No. <u>3</u> as of "<u>04</u>" <u>May</u> 2023 Head of field-specific methodological commission  prof. Radchenko O.M.</p>
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2023



**CHANGES AND ADDITIONS TO THE STUDY PROGRAM OF DISCIPLINE “COSMETOLOGY”
SPECIALTY “222 “MEDICINE”
FOR 2023-2024 ACADEMIC YEAR**

N	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 elective course «Cosmetology» 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, H.E. Astsaturov, I.O. Chaplyk-Chyzho, assist.prof. V.V. Protsak.

Reviewers:

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

GENERAL SECTION

The program of studying the discipline "Cosmetology"

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 "Cosmetology" 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 elective course «Cosmetology» – 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. The study implies obtaining knowledge in etiology, pathogenesis, clinical manifestations of different pathologies in cosmetology and understanding of contemporary approaches to treatment or implementation of appropriate preventive measures.

The ECTS system encourages students to learn systematically during the academic year.

According to the curriculum the types of educational activities are as follows:

- a) practical classes,
- b) individual work of students (ISW);

In its organization the advices given by teachers play a significant role.

Thematic plans of lectures, practical classes and IWS provide implementation of all topics covered by thematic modules into the educational process.

Structure of academic discipline	Quantity of hours, out of them				Year of studying	Type of control
	Total	Classroom hours		ISW		
		Lectures	Practical classes			
Credit «Cosmetology»: Thematic modules – 3	2,0 ECTS credits/ 60 hours	-	26	34	4th year (VII - VIII semester)	credit
<i>Thematic module 1</i>	0,167 credits / 5 hours	-	2	3	-	
<i>Thematic module 2</i>	1,033 credits / 32 hours	-	14	18	-	

Thematic module 3	0,8 credits / 23 hours	-	10	13	-	
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The subject of the study of the discipline are:

- Definition of the subject, explanation of the physiological and morphological features of the skin and mucous membranes in normal and at different pathological conditions.
- Dermatological alphabet: features of existing eruptions, their localization, character and interposition.
- Methods of examination of a dermatologic patient with due attention to his available cosmetic pathology.
- To appoint laboratory and/or instrumental examination, to perform differential diagnosis of dermatoses.
- Methods of the basis of therapy and prophylactic-cosmetic diseases, taking into account the type of skin and age characteristics.
- Determination of factors contributing to the development of diseases of the skin, hair and nails.
- The role of the ability to quickly and deontologically carefully collect anamnesis of life and disease in a particular patient.
- Identify the features of skin rashes in different age groups.
- Features of determining the ways and probable conditions for infection with pyogenic flora, mycoses and viruses during cosmetic manipulation.
- To be able to determine the way of patient surveillance carefully and ethically as well as to adhere to the principles of prevention of the most common dermatoses complicated with chronic-relapsing course.

Interdisciplinary integration:

the elective course «COSMETOLOGY» as a discipline

- 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. lays the foundations of a study such clinical disciplines as dermatovenereology, oncology, surgical stomatology, microbiology, surgery and pharmacology;
- c. forms the idea to prevent the development of various cosmetic pathology.

1. The purpose and objectives of the discipline

1.1. The studying purpose of the elective course «COSMETOLOGY» is the formation of systemic medical knowledge on:

- physiological and morphological features of the skin and mucous membranes in normal and at different pathological conditions;
- determining the ways and probable conditions for piogenenic, fungal and viral infection.
- identifying the factors contributing to the development of diseases of the skin, hair and nails;
- to distinguish between pathways and probable conditions of sensitization of an organism;
- to distinguish the features of rashes on the skin and visible mucous membranes;
- demonstrate the ability to describe the features of existing lesions, their location, nature, quantity;
- demonstrate knowledge of the principles of therapy and prevention of cosmetic changes, taking into account skin type and age characteristics.

1.2. The main tasks of studying the elective course "Cosmetology" are:

- studying the dermatological alphabet, its localization, the nature and interposition of the skin at cosmetological diseases, methods of their prevention;

- preparing students for work in the cosmetology department by studying the basic cosmetology procedures;
- mastering the basic methods of treatment used in cosmetology.

1.3. 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	Be able to conduct an analysis of professional	Establish appropriate	Be responsible for the

		indicators that characterize them.	information, make informed decisions, acquire modern knowledge.	relationships to achieve goals.	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 professional activity.	To be responsible for the reasonableness of the decisions taken to solve problems of 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)	To determine the etiological and pathogenetic factors of the appearance and subsequent clinical course of the most common	To bear personal responsibility for the correctness of anamnesis collection,

			of specialized patients.	skin and venereal diseases in humans.	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	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.

		of disability of dermatovenerological 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 treatment methods of patients with oral mucosal lesions in case of cosmetological 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	To have the methods and techniques of conducting	Determine the tactics of managing a	To bear personal responsibility

		diagnostic and therapeutic manipulations that can be used in the work of a dermatovenerologist.	diagnostic and therapeutic manipulations that can be used in the work of a dermatovenerologist.	patient with skin and venereal diseases.	y 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 elective course "Cosmetology":

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 cosmetological disorders.
 - 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 cosmetological patients;
 - to know the theoretical foundations of dermatological alphabet in case of skin lesions;
 - to organize the work on the prevention of cosmetological diseases.

Learning outcomes for the discipline:

As a result of studying the elective course "Cosmetology" the student must know:

- Cosmetology - definition, purpose and tasks, historical milestones of cosmetology.
- The structure of the cosmetological service.
- Anatomical and functional features of skin in children and adults.
- Methods of diagnosis in cosmetology.
- Hardware methods of skin examination (phototherapy, UV therapy, cryotherapy etc.).
- Methods of manual cosmetology (hand cosmetic cleaning, masks, depilation, peeling).

- Fundamentals of dermatologic methods (mesotherapy, biorevitalisation, electrocoagulation, cryodestruction).
- Correction of age changes (individual cosmetic care).
- Violation of skin color.
- Pathology of sebaceous glands. Acne Acne rosacea. Oral dermatitis. Individual cosmetic care.
- Complication of surgical methods of cosmetic correction.

As a result of studying the elective course "Cosmetology" the student must be able to:

- conduct physical examination of the patient;
- analyze the results of the examination of a patient with cosmetological disorders;
- carry out the prevention of cosmetological disorders.

2. Information volume of the elective course "Cosmetology":

To study the academic discipline 3,0 credits / 90 hours are given.

Thematic module 1: Propedeutics of dermatology and cosmetology.

Thematic module 2: Diseases of the skin and its appendages (sebaceous and sweat glands, hair and nails).

Thematic module 3: Methods of treatment and prevention in cosmetology practice.

3. Structure of the elective course "Cosmetology":

Theme	Lectures	Practical classes	ISW	Individual work
Thematic module 1: Propedeutics of dermatology, cosmetology.				
1. Theme 1: History of dermatology and cosmetology development. Anatomy, histology and physiology of skin and mucous membranes. The main types of skin, their characteristics. Age characteristics of the skin. The influence of various factors on the skin and visible mucous membranes. Methods of examination of skin, its appendages, mucous membranes. The correction of skin defects. Elements of skin rash.	-	2	3	-
Total thematic module 1	-	2	3	-
Thematic module 2. Diseases of the skin and its appendages (sebaceous and sweat glands, hair and nails).				
2. Theme 2: The concept of skin tumors. Clinical course, diagnostic and prevention methods.	-	3	4	-
3. Theme 3: Disorders of sebaceous and sweat glands: seborrhea, rosacea, perioral dermatitis.	-	2	3	
4. Theme 4: Dyschromia. Clinical features and course.	-	3	3	
5. Theme 5: Hair diseases: dystrophies and hypertrichosis, alopecia. Nail diseases, care and treatment.	-	3	4	-
6. Theme 6: Skin and cosmetic stigmas in case of chronic infections, systemic diseases. Photo -, phyto – and allergodermatoses. Skin manifestations of COVID – 19.	-	3	4	-
Total thematic module 2	-	14	18	-
Thematic module 3. Methods of treatment and prevention in cosmetology practice.				

7. Theme 7: Methods of treatment and prevention in cosmetology practice.	-	2	3	-
8. Theme 8: Methods of cosmetic defects' correction of the skin: physical (diathermocoagulation, cryotherapy, thermotherapy, laser therapy, dermabrasion), chemical (mesotherapy, peelings, biorevitalization). The rules of deontology.	-	3	3	-
9. Theme 9: General concepts of types of plastic surgery on the face, body. Prevention of viral complications during cosmetic procedures.	-	3	3	-
10. Theme 10: Medications forms and their use in cosmetology. Decorative cosmetics. Credit.	-	2	4	-
Total thematic module 3	-	10	13	-
Total hours 60/2,0 Credits ECTS	-	26	34	-
Final assessment				credit

4. Thematic outline of practical classes

No. p/o	TOPIC	Q-ty of hours
1.	History of dermatology and venereology development. Anatomy, histology and physiology of skin and mucous membranes. The main types of skin, their characteristics. Age characteristics of the skin. The influence of various factors on the skin and visible mucous membranes. Methods of examination of skin, its appendages, mucous membranes. The correction of skin defects. Elements of skin rash.	2
2.	The concept of skin tumors. Clinical course, diagnostic and prevention methods.	3
3.	Disorders of sebaceous and sweat glands: seborrhea, rosacea, perioral dermatitis.	2
4.	Dyschromia. Clinical features and course.	3
5.	<i>Hair diseases: dystrophies and hypertrichosis, alopecia.</i> Nail diseases, care and treatment.	3
6.	Skin and cosmetic stigmas in case of chronic infections, systemic diseases. Photo -, phyto – and allergodermatoses. Skin manifestations of COVID – 19.	3
7.	General concepts of types of cosmetic procedures: cleaning of the face, cosmetic masks, massage in cosmetology. Indications and contraindications. Allergic reactions in cosmetic practice.	2
8.	Methods of cosmetic defects' correction of the skin: physical (diathermocoagulation, cryotherapy, thermotherapy, laser therapy, dermabrasion), chemical (mesotherapy, peelings, biorevitalization). The rules of deontology.	3
9.	General concepts of types of plastic surgery on the face, body. Prevention of viral complications during cosmetic procedures.	3
10.	Medications forms and their use in cosmetology. <i>Decorative cosmetics.</i> Credit.	2
TOTAL		26

5. Thematic outline of individual work

No.	TOPIC	Hours
1.	The influence of environmental factors and lifestyle on skin condition.	3
2.	Precancerous skin diseases.	4
3.	Dermatological aspects of cosmetic care for problem skin.	3
4.	Repigmentation of the skin and hair in case of dyschromia.	3
5.	Modern methods of alopecia treatment of various genesis.	4
6.	Skin and cosmetic stigmata in some internal diseases.	4
7.	Allergodermatoses, photo-, phytodermatoses. Preventive methods of treatment.	3
8.	Methods of cosmetic skin defects correction.	3
9.	Types of surgical and plastic surgery on the skin of the face and body.	3
10.	Topical steroids: use in dermatology, indications, contraindications, possible complications and methods of their prevention.	4
	TOTAL	34

6. Individual tasks (an educational medical history of a dermatological patient) **not applicable**.

7. 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) practical classes;

b) 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 elective course "Cosmetology".

- 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.

8. Control methods:

The method of practical classes organization in the elective course "Cosmetology" 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 – 35 minutes.

3. For 30 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 – 15 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.

9. 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.

9.1. 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.

10. Form of the final control:

Semester 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.

11. 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	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

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.

Individual work of students is carried out by checking the written accomplishment of the tasks set in the Workbook for preparation for each topic. The specific weight of the assessment for a notebook with homework is 25% of the total score for classes in grades. If the student did not complete the task for the CPC and did not provide a notebook for the teacher, then the traditional grade for the class would be **lower by 1 point**.

Evaluations of the **level of knowledge** of students, which is carried out through the solution of 10 tasks in the format A (level a-2) or evaluation responses to the control theoretical questions.

Score "5" is displayed for this stage in the case when the student correctly answered 9-10 tasks.

Score "4" is displayed when the student correctly answers 7-8 tasks.

Score "3" is displayed when the student correctly answers for 5-6 tasks.

Score "2" is displayed when the student answered correctly 4 or less tasks.

Estimation of the possession of practical skills in accordance with professional algorithms during the main stage of practical training. Conducted in the course of the student's practical skills on the model or in writing, the implementation of the algorithm of its implementation.

Score "5" is displayed for this stage in the case when the student correctly, in accordance with the professional algorithm, performed on the model cosmetic manipulation intended for the purpose of practical training.

Score "4" is displayed when the student knows the sequence in accordance with the professional algorithm, with minor mistakes performed on the model of cosmetic manipulation, provided for the purpose of practical training.

Score "3" is displayed when the student is not in full knowledge of the professional procedure for the implementation of this or other manipulation, It is assumed mistakes in the implementation of on-modal-mechanical metering, provided for the purpose of practical training.

Score "2" is exhibited, when the student does not know professional algorithm for the implementation of cosmetic manipulation, can not execute model of cosmetic manipulation, provided for the purpose of practical training.

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.

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

13.1. General part:

1. Brief historical outline of the history of dermatovenereology. 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. Characteristics monomorphic and polymorphic rashes.
7. Methods of dermatological patient examination. Stages of diagnostic process.
8. Special dermatological methods of patient examination (palpation, diascopy, isomorphic skin reaction test, dermatography, allergic skin tests).
9. Laboratory diagnostic methods (general and specific).
10. Basic principles of the therapy in dermatocosmetology.
11. Basic methods of local therapy in dermatology.
12. Treatment of dermatoses with spa and physiotherapy methods..

13.2. Special part

1. Characteristics of the main skin types. Care for dry, normal, oily and combination skin. Age characteristics of the skin. The influence of various factors on skin condition.
2. Methods of examination of skin appendages, mucous membranes under normal and pathological conditions. Determination of sensitivity, sweating, fat excretion in problem areas.
3. Pustular diseases of the skin and visible mucous membranes. Classification of pyoderma. Staphylococcal skin infections: ostiofolliculitis, folliculitis, furuncle, carbuncle, sycosis. Their classification, clinical features and treatment. Streptococcal infections of skin – streptoderma: streptococcal impetigo, lichen simplex. Their classification, clinical features and treatment. Strepto-staphylococcal skin infections - mixed pyoderma: impetigo vulgaris, ecthyma vulgaris. Their classification, clinical features and treatment. The methods of cosmetic care.
4. Viral dermatosis of the skin and mucous membranes (simple and herpes zoster, warts, molluscum contagiosum, genital warts), clinical features, treatment. Prevention of viral lesions and mucous membranes during cosmetic and stomatological procedures.
5. The concept of skin neoplasms. Skin tumors with benign course. pre-cancer skin diseases. Skin tumors with malignant course. The clinical course, diagnosis and prevention methods.
6. Problem skin. Acne and its clinical variants. Rosacea, comedones, milium, atheroma. Clinic features and treatment. Daily care and preventive measures.
7. Seborrhea: oleosa, sicca and mixed. Therapeutic and preventive measures.
8. Skin and cosmetic stigmas in chronic foci of infection of the oral cavity. The color of the skin and mucous membranes, pallor (anemia, kidney and heart diseases), flushing (lung and heart diseases), icteric color (liver disease, tumors), hyperpigmentation (cirrhosis). Erythema of skin.
9. General concepts of cosmetic procedures types.
10. Cleaning of face. Indications and contraindications for face cleaning, technique of the procedure.
11. Skin peeling. Indications and against indications for peeling of the skin. Slow peeling, methods of implementation. Deep skin peeling, technology implementation.
12. Cosmetic masks. Variety of face masks: nutritive, toning, whitening, anti-inflammatory. Indications and contraindications for applying of masks. Using masks for different skin types.
13. Massage in cosmetology. General physiological basis of massage. Conditions and requirements for cosmetic massage. Indications and contraindications for the massage.
14. Physical therapy treatments in cosmetology: phototherapy, thermotherapy, cryotherapy, aeroiono- and aerosol- therapy. Indications and contraindications, methods of implementation.
15. Medications forms and their use in cosmetology.

16. Definitions and concepts in cosmetology: infusions and decoctions, tinctures, poultices, cosmetic ice.
17. Biologically active substances in cosmetics, their effects.
18. Characteristics of an active ingredients of medicinal plants in cosmetology.

14. List of recommended literature:

Basic academic literature

1. Bilovol A.M., Tkachenko S.Gh. Medical cosmetology. Textbook for students of IV level of accreditation of medical cosmetology. (Ukr). 2012:384.
2. Ghalnykina S., Bojko Ju., Vitenko B. Basis of practical Dermatology and Cosmetology. (Ukr). Ternopil: Pidruchnyky i posibnyky. 2006:176.
3. Klymyshyna S.O., Cysnecka A.V., Rachkevych L.V. Pharmaceutical Cosmetology. (Ukr). Ternopil: Volya. 2009: 176 p.
4. Gawkrödger, David, Ardern-Jones, Michael R.: Dermatology: An Illustrated Colour Text. (Eng). 2023.

Additional academic literature

1. Kaljuzhna L.D. Hair Diseases. Textbook. (Ukr). Kyiyv. 2004:66.
2. Koljadenko V.Gh., Fedorenko O.Je. General issues of the pathogenesis of skin diseases. Dermatological pathology as a medical and psychological problem. Deontology in dermatology. Textbook for student selfeducation. (Ukr). K.:NMU. 2005:20.
3. Koljadenko V.Gh., Fedorenko O.Je. Pyoderma. Textbook for student selfeducation. (Ukr). K.:NMU. 2006:23.
4. Koljadenko V.Gh., Fedorenko O.Je., Andrashko Ju.V. Mycoses. Textbook for student selfeducation. (Ukr). K.:NMU. 2005:24.

15. Information resources:

- www.medlit.pp.ua
- www.intranet.tdmu.edu.ua