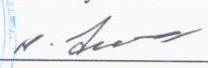



DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY

Department: Propaedeutics of Internal Medicine

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



«10» 10 2023 y.



DISCIPLINE PROGRAM


OC-20.1 "Propaedeutics of internal medicine"

Second (master's) level of higher education
Field of knowledge 22 "Healthcare"
Specialty 221 "Dentistry"
Faculty, year: Dentistry 2nd year


Discussed and approved
at the educational-methodical meeting of the
Department of Propaedeutics of internal medicine
Minutes № 8 dated "19" April 2023
Head of the department
Prof. Roman Dutka



Approved by the
Profiled Methodical Board on Therapeutic
Disciplines
Minutes № 3 dated "4" May 2023 y.
Head of the Board
Prof. O. M. Radchenko



Lviv – 2023



The discipline program “Propaedeutics to internal medicine” was developed and imported at the Department of Propaedeutics of Internal Medicine of DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY for 2nd year students of Dentistry faculty by the Specialty 221 " Dentistry ".

**Changes and additions to the Working Program of the academic discipline
"Propaedeutics to internal medicine" for 2023-2024**

	Content changes (additions)	Date and No. of the protocol of the department meeting	Notes
1.	No changes and additions to the Working Program of the academic discipline "Propaedeutics to internal medicine" for 2023-2024 were made.	19. 04.2023 y., Minutes №8	Approved by profiled methodical board of therapeutic disciplines, minutes №3 dated 04 May 2023.
2.	Made changes to the thematic plan of lectures and self work of students due to the change in the number of lecture hours and hours allocated for self work of students, in accordance with the order of the Rector of the University № 881-c from 15.03.2022.	17. 03.2022 y., Minutes №13	Approved by profiled methodical board of therapeutic disciplines, minutes №2 dated 29 March 2022.
3.	The last changes were made in September 2020 in connection with the education of students in a pandemic of coronavirus infection (Covid-19)	31.08.2020 Minutes №1, 01.09.2020 Minutes №275	Approved by profiled methodical board of therapeutic disciplines, minutes №1 dated 10 September 2020.

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EXPLANATORY NOTE

The discipline "propaedeutics of internal medicine" is a subject that studies what a doctor should start with when examining a patient in an internal medicine clinic, ie the introductory provisions and the beginning of the acquisition of clinical thinking. Translated into Ukrainian, "Pro" is a preface, introduction, "paideuo" is to teach. Propaedeutics of internal medicine consists of two sections. The first section: subjective and objective examination of the patient. Complaints and anamnesis are subjective. The objective is divided into the main objective features, when the doctor directly examines the patient, and auxiliary, when there are laboratory and instrumental means between the patient and the doctor. The second section: on the basis of the revealed changes (symptoms which are united by the general pathogenesis in syndromes), the conclusion which is called the diagnosis is formed.

The subject of the study of the discipline is the study of the principles of diagnosis of diseases of the internal organs. The dentist first and foremost must be able to identify the symptoms and syndromes of the most common internal diseases and their complications leading to urgent conditions. The main tasks of the course of internal diseases are to teach students to perceive the human body as a whole, to highlight the relationship between pathology of the oral cavity and internal organs, to develop skills of rapid examination and provision of urgent help to patients at the prehospital stage and in emergency situations.

In some diseases of the internal organs, the first symptoms are very often found on the mucous membrane of the oral cavity, which prompts the patient to contact a dentist. After all, oral cavity is closely linked with different organs and systems. In addition, in the practice of a dentist's work, it is possible that there are certain urgent conditions due to the pathology of the internal organs, and the tactics chosen by the dentist can become a decisive factor in the life and health of the patient.

The discipline has the following structure

Structure of educational discipline	Number of hours, from them			Year of study	Kind of control	
	Total hours / credit	Auditory				SWS
		Lectures	Practical sessions			
Hours / credit	90/3	10	30	50	II	Credit

3 ECTS credits / 90 hours are allocated for the study of the academic discipline.

The subject of study of the discipline "propaedeutics of internal medicine" is a set of theoretical and practical issues aimed at mastering the basic methods of examination of the patient in the clinic of internal medicine.

Interdisciplinary connections: normal anatomy; normal physiology; topographic anatomy; pathological anatomy; pathological physiology; medical psychology.

The purpose and objectives of the discipline:

The purpose of teaching the discipline "propaedeutics of internal medicine" is to form in the student the basics of clinical thinking and the acquisition of professional skills in examining the patient and assessing the main manifestations of diseases of internal organs in accordance with the principles of medical ethics and deontology.

The main tasks of studying the discipline "propaedeutics of internal medicine" are:

- mastering by the student of theoretical knowledge necessary for detection of human diseases.
- mastering practical techniques and methods of objective and laboratory-instrumental examination of patients.
- mastering the general methodological approaches of clinical examination of the patient.
- diagnosis of certain internal human diseases with their typical manifestations.
- formation of students' moral, ethical and deontological qualities in professional communication with the patient.

Competences and learning outcomes, the formation of which is facilitated by the discipline (relationship with the normative content of training of higher education seekers, formulated in terms of learning outcomes in the Standard of Higher Education).

In accordance with the requirements of the Standard of Higher Education, the discipline ensures the acquisition of competencies by students.

– General:

GC1 Ability to abstract thinking, analysis and synthesis.

GC2 Knowledge and understanding of the subject area and understanding of professional activity.

- GC3 Ability to apply knowledge in practice.
 GC4 Ability to communicate in the state language both orally and in writing.
 GC5 Ability to communicate in English.
 GC6 Skills in the use of information and communication technologies.
 GC7 Ability to search, process and analyze information from various sources.
 GC8 Ability to adapt and act in a new situation.
 GC9 Ability to identify, pose and solve problems.
 GC10 Ability to be critical and self-critical.
 GC11 Ability to work in a team.
 GC12 The desire to preserve the environment.
 GC13 Ability to act socially responsibly and consciously.
 GC14 Ability to exercise their rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine.
 GC15 Ability to preserve and increase moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, techniques and technologies, use different types and forms of physical activity for active recreation and a healthy lifestyle.

– Special:

- SC1 Ability to collect medical information about the patient and analyze clinical data.
 SC2 Ability to interpret the results of laboratory and instrumental studies.
 SC3 Ability to diagnose: determine the preliminary, clinical, final, concomitant diagnosis, emergencies.
 SC7 Ability to determine the tactics of management of patients with diseases of organs and tissues of the oral cavity and maxillofacial region with concomitant somatic diseases.
 SC11 Ability to determine tactics, methods and provide emergency medical care.
 SC14 Ability to maintain regulatory medical records.

COMPETENCE MATRIX

№	Competence	Knowledge	Skills	Communication	Autonomy and responsibility
1	2	3	4	5	6
GC 1	Ability to abstract thinking, analysis and synthesis.	Know the methods of analysis, synthesis and further modern learning.	Be able to analyze information, make informed decisions, be able to acquire modern knowledge.	Establish appropriate links for achieving goals.	Be responsible for the timely acquisition of modern knowledge
GC 2	Ability to learn and master modern knowledge.				
GC 3	Ability to apply knowledge in practical situations.	Have specialized conceptual knowledge acquired in the learning process.	Be able to solve complex problems and problems that arise in professional activities.	Clear and unambiguous communication of own conclusions, knowledge and explanations that substantiate them to specialists and non-specialists.	To be responsible for decision making in difficult conditions
GC 4	Knowledge and understanding of the subject area and understanding of professional activity.	Have deep knowledge of the structure of professional activity.	Be able to carry out professional activities that require renewal and integration knowledge.	Ability to form effectively a communication strategy in professional activities.	To be responsible for professional development, ability to further professional training with a high level autonomy.
GC 5	Ability to adapt and act in a new situation.	Know the types and methods of adaptation, principles of	Be able apply means of self-regulation, be able to adapt to new situations	Make the right connections to achieve the result.	Be responsible in a timely manner use of self-regulation methods

		action in a new situation.	(circumstances) of life and activity.		
GC 6	Ability to make informed decisions	Know the tactics and strategies of communication, laws and ways of communication behavior.	Be able to make an informed decision, choose ways and communication strategies to ensure effective teamwork.	Be able to make an informed decision, choose ways and communication strategies to ensure effective teamwork.	To be responsible for the choice and tactics of communication.
GC 7	Ability to work in a team.				
GC 8	Interpersonal skills.				
GC 9	Ability to communicate in a foreign language.	Have a good knowledge of a foreign language	Be able to apply knowledge of a foreign language, both orally and in writing	Use in professional and business communication and preparation of documents in a foreign language.	To be responsible for fluency in a foreign language, for development professional knowledge.
GC 10	Ability to use information and communication technologies.	Have deep knowledge in the field of information and communication technologies, used in professional activities.	Be able to use information and communication technologies in a professional field that needs updating and integration of knowledge.	Use information and communication technologies in professional activities.	Be responsible for the development of professional knowledge and skills.
GC 11	Ability to search, process and analyze information from various sources.	Know the ways and means of finding, processing and analyzing information obtained from various sources.	Be able determine the purpose and objectives to be persistent and conscientious when search, processing and analysis of information obtained from various sources.	Establish interpersonal connections for effective search, processing and analysis of information obtained from various sources.	To be responsible for quality search, processing and analysis of information from various sources.
GC 12	Definiteness and perseverance in terms of tasks and responsibilities.	Know the responsibilities and ways to accomplish the tasks.	Be able determine the purpose and objectives to be persistent and conscientious when performance of duties.	Establish interpersonal connections for effective performance of tasks and responsibilities.	Responsible for quality performance of tasks.
GC 13	Awareness of equal opportunities and gender issues.	Know about equal opportunities and gender issues.	Be able to use knowledge about equal gender opportunities in professional activities.	Ability to establish interpersonal relationships using knowledge of equal gender opportunities in teamwork.	To be responsible for the observance of equal gender opportunities in their professional activities.
GC 14	The ability to exercise their rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and	Know your rights and responsibilities as a member of society.	Aware of the values of civil (free democratic) society.	The ability to exercise one's rights and responsibilities as a member of society for its sustainable development.	To be responsible for the observance of the rule of law, human and civil rights and freedoms in Ukraine.

	civil rights and freedoms in Ukraine.				
GC 15	Ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, techniques and technologies, active recreation and a healthy lifestyle.	Have a deep knowledge of moral, cultural, scientific values and achievements of society, understand the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and engineering.	Understand the importance of moral, cultural, scientific values, knowledge of a healthy lifestyle for the development of society, technology and technology	Ability to implement moral, cultural, scientific values, knowledge of a healthy lifestyle in their professional activities.	To be responsible for observance of moral, cultural, scientific values, a healthy way of life in the professional activity.
SC 1	Ability to collect medical information about the patient and analyze the data obtained.	Know the features of questioning patients in the therapeutic department of the hospital: the collection of primary and secondary complaints, medical history and life	Be able to collect patient complaints, anamnesis morbi, anamnesis vitae in the therapeutic department of the hospital	The ability to effectively shape a communication strategy in communication with patients and their relatives.	Carry responsibility for the choice and tactics of communication. Responsible for using the results of the interview with patient according to the standard scheme of questioning the patient.
SC 2	Ability to determine the required list of laboratory and instrumental studies and evaluate their results.	Know the list of necessary laboratory and instrumental examinations.	Be able to schedule the necessary laboratory and instrumental examinations depending on the previous diagnosis.	Ability to evaluate the results of laboratory and instrumental studies.	Be responsible for the correct interpretation of the results of laboratory and instrumental research.
SC 3	Ability to establish a preliminary and clinical diagnosis of the disease.	Know the principles of preliminary and clinical diagnosis of the disease.	Be able to collect anamnesis, conduct a general and detailed examination of the patient, to appoint the necessary laboratory and instrumental studies to establish a preliminary and clinical diagnosis of the disease.	Ability to correctly interpret the data obtained by questioning, objective examination of the patient and the results of laboratory and instrumental studies to establish a preliminary and clinical diagnosis of the disease.	Be responsible for the correct formulation of the preliminary and clinical diagnosis.
SC 7	Ability to diagnose emergencies.	Know the basic emergencies in the clinic of internal medicine.	Be able to diagnose correctly emergencies	Ability to communicate effectively with relatives of patients or bystanders in the event of an emergency for a correct diagnosis	Responsible for the correct diagnosis of an emergency.

SC 11	Adherence to ethical principles when working with patients, laboratory animals.	Know the basic ethical norms and principles of professional activity of a doctor.	Be able to implement basic ethical norms and principles when working with patients, laboratory animals.	Ability to effectively form a communication strategy when working with the patient in compliance with ethical norms and principles.	Responsible for compliance with ethical norms and principles when working with patients, laboratory animals.
SC 14	Adherence to professional and academic integrity, be responsible for the accuracy of scientific results.	Know the basic rules of professional and academic integrity.	Be able to implement the rules of professional and academic integrity in the performance of their professional activities and research work.	Ability to formulate effectively a communication strategy based on professional and academic integrity.	To be responsible for the observance of professional and academic integrity, for the reliability of the obtained scientific results.

PRS2	Collect information about the general condition of the patient, assess the psychomotor and physical development of the patient, the condition of the organs of the maxillofacial area, based on the results of laboratory and instrumental studies to assess information about the diagnosis (list 5).
PRS4	Determine the final clinical diagnosis in accordance with the relevant ethical and legal norms, by making an informed decision and logical analysis of subjective and objective data of clinical, additional examination, differential diagnosis under the supervision of a physician-manager in a medical institution (list 2.1).
PRS5	Establish a diagnosis of emergencies under any circumstances (at home, on the street, in a medical facility), in an emergency, martial law, lack of information and limited time (according to list 4).
PRS10	To determine the tactics of managing a dental patient with somatic pathology (according to list 3) by making an informed decision according to existing algorithms and standard schemes.
PRS13	Determine the tactics of emergency medical care, using the recommended algorithms, under any circumstances on the basis of a diagnosis of emergency in a limited time (according to list 4).
PRS17	Adhere to a healthy lifestyle, use the techniques of self-regulation and self-control.
PRS19	Adhere to the requirements of ethics, bioethics and deontology in their professional activities.

STRUCTURE OF THE DISCIPLINE

Topic	Lectures	Practical classes	SWS	Individual work
1	2	3	4	5
<i>The main tasks of internal medicine. Rules for questioning and examination of the patient.</i>				
1. Topic 1. Scheme of history of the disease. Rules of questioning the patient.	1	2	3	-
2. Topic 2. General and detailed patient examination. Specificity of the examination of seriously ill patients with limited life expectancy.		2	2	
<i>Physical and laboratory-instrumental methods of studying the state of the respiratory system.</i>				
3. Topic 3. The main complaints and inspection of patients with respiratory diseases. Palpation of the chest.	1	2	1	
4. Topic 4. Percussion of the lungs.		2	2	
5. Topic 5. Auscultation of the lungs. Bronchophonia.		2	1	

<i>Physical and instrumental methods of examination of the cardiovascular system.</i>				
6. Topic 6. Questioning and inspection of patients with cardiovascular disease. Palpation of the heart area. Percussion determination of boundaries of relative and absolute cardiac dullness.	1	2	2	
7. Topic 7. Auscultation of the heart.		2	2	
8. Topic 8. Heart murmurs. Mechanism of murmurs formation, classification. Diagnostic value. Echo-KG.				
9. Topic 9. Study of peripheral pulse and measurement of blood pressure.		2	4	
<i>Basic methods of examination the organs of the digestive and urinary system .</i>				
10. Topic 10. Examination of patients with diseases of the digestive system Diagnostic value of questioning and examination of patients, palpation and percussion of the abdomen. Study of gastric secretion, fecal analysis. Changes in the oral cavity in diseases of the gastrointestinal tract.	1	2	2	
11. Topic 11. Examination of patients with diseases of the urinary tract. Questioning and examination of patients, palpation of the kidneys. Pasternatsky's symptom. Laboratory and instrumental methods. Diagnostic value. Manifestations of kidney disease from the oral mucosa.		2	8	
<i>Basic methods of examination of hematopoietic organs</i>				
12. Topic 12. Examination of patients with diseases of the hematopoietic organs. Interrogation, examination, palpation and percussion of the liver and spleen. Sternal puncture. Clinical blood test. The main indicators of blood clotting. Diagnostic value. Manifestations of blood diseases of the oral mucosa.	2	2	1	
<i>The main methods of examination of endocrine organs and systemic pathology of connective tissue</i>				
13. Topic 13. Examination of patients with pathology of the endocrine system.	2	2	1	
14. Topic 14. Methods of examination of patients with connective tissue pathology.		2	1	
15. Topic 15. Protection of educational history of the disease. Final lesson on methods of examination of the patient.				
Together hours 180/6,0 credits ECTS	10	30	50	
Type of control				Credit

4. THEMATIC PLAN OF LECTURES

№	Topic	Number of hours
	"The main methods of examination in the clinic of internal diseases"	

IV semester (autumn)		
1.	Propaedeutics of Internal Medicine as a subject. Examination of patients with respiratory system pathology.	2
2.	Examination of patients with pathology of the cardiovascular system.	2
3.	Examination of patients with pathology of the digestive system.	2
4.	Examination of patients with pathology of the endocrine and urinary system.	2
5.	Examination of patients with pathology of blood formation (hematopoietic) system and with pathology of connective tissue.	2
Together:		10

5. THEMATIC PLAN OF PRACTICAL CLASSES

№	Topic	Number of hours
"The main methods of examination in the clinic of internal diseases"		
V semester (autumn)		
1.	Subject and objectives of propaedeutics to internal diseases. Patient examination plan. Scheme of the history of the disease. The concept of "health", "disease", "symptom", "syndrome", "diagnosis". Types of diagnosis. Questioning patients as a method of examination. Diagnostic value. Features of the use of moral-deontological principles in the context of incurable disease.	2
2.	General overview of the patient as a method of examination. Percussion and palpation as a method of examination. General rules and techniques of percussion and auscultation. Diagnostic value.	2
3.	Interviewing and examination of patients with diseases of the respiratory system. Palpation of the chest.	2
4.	Percussion as a method of examination. Comparative and topographical percussion. Diagnostic value.	2
5.	Auscultation of the lungs. The main and side breathing noises, formation mechanism. Bronhofoniya. Diagnostic value.	2
6.	Interviewing and examination of patients with diseases of the cardiovascular system. Palpation and percussion of the heart. Configuration heart. Diagnostic value.	2
7.	Auscultation of the heart. Point of auscultation. Mechanism of formation of sounds. Diagnostic value.	2
8.	Murmurs of a heart. Formation and mechanism of murmurs. Diagnostic value. Echocardiography.	2
9.	Examination of peripheral pulse. Diagnostic value. Examination of blood pressure. Basic indicators. Diagnostic value. Clinical and functional methods of examination. ECG.	2
10.	Examination of patients with diseases of the digestive system. Diagnostic value of questioning and examination of patients, palpation and percussion of the abdomen. Study of gastric secretion, stool analysis. Changes in the oral cavity in diseases of the gastrointestinal tract.	2
11.	Examination of patients with diseases of the blood. Enquiry, inspection, palpation and percussion of the liver and spleen. Sternal puncture. Clinical analysis of blood. Blood coagulation. Diagnostic value. The manifestations of blood diseases in oral mucosa.	2
12.	Examination of patients with diseases of the urinary system. Questioning and examination of patients, palpation of the kidneys. Pasternatsky's symptom. Diagnostic value. Manifestations of renal diseases in oral mucosa.	2
13.	Examination of patients with pathology of the endocrine system.	2
14.	Methods of examination of patients with connective tissue pathology.	2
15.	Submission of patient history (case history of patient disease). The final lesson on methods of examination of patients.	2
Together:		30

6. THEMATIC PLAN OF SELF WORK OF STUDENTS

№ з/п	Title of topic (or content of work)	Number of hours	Type of control
"The main methods of examination in the clinic of internal diseases" V semester (autumn)			
1.	Preparation for practical classes - theoretical and skills training of methods of objective examination of a patient	21	Current control on practical classes
2.	Independent study of topics that are not included in the classroom lesson plan: ✓ Instrumental methods of examination of the respiratory system ✓ Instrumental methods of examination of the cardiovascular system ✓ Instrumental methods of examination of the digestive system.	3 5 5	
3.	Mastering the ability to analyze:		
	- results of the study of the function of external respiration	2	
	- data of electrocardiographic and phonocardiographic examinations	4	
	- results of intragastric pH-metry	1	
	- duodenal sounding data	1	
	- results of coprological examination of feces	1	
4.	Principles of care for patients in the clinic of internal medicine and first aid and medical care (hypertensive crisis, sudden cardiac arrest, heart attack, fainting, collapse of asphyxia, acute bleeding, anaphylactic shock).	3	
Together:		50	

METHODS OF CONTROL AND EVALUATION OF STUDENTS FOR THE EDUCATIONAL DISCIPLINE "PROSPECTS OF INTERNAL MEDICINE"

Individual tasks (anamnesic part of medical history; medical history).

Anamnesic part of the medical history. Collection of anamnesis in the ward near the patient's bed (registration of the passport part, complaints, anamnesis of the disease, anamnesis of life). Written registration by students of the data collected during interrogation of the patient.

Medical history. Examination of patients with various diseases of the internal organs. Evaluation of anamnesis data and objective examination. Registration of educational history of the disease. Formulation of a preliminary diagnosis. The plan of laboratory and instrumental examinations and treatment of the patient. Acquaintance with data of instrumental and laboratory inspections of the patient. Rationale for clinical diagnosis.

In the classroom, students systematize the data obtained during the examination of the patient in accordance with the scheme of writing a medical history. Analyzing the individual symptoms and highlighting the syndromes, formulate a preliminary diagnosis for the patient to be supervised. According to the preliminary diagnosis, substantiate the plan of necessary laboratory and instrumental examinations, treatment plan, which includes the appointment of the regime, diet and the main groups of drugs. Taking into account the previous diagnosis and the obtained results of laboratory and instrumental examinations, students formulate a clinical diagnosis and substantiate it.

Teaching methods:

In order to intensify the cognitive activity of students and optimize the educational process at the department introduced into the educational process the use of educational computer videos (author -, Professor OG Yavorsky), namely: physical methods of examination of patients - Palpation, percussion, auscultation", audio-CD -" Respiratory murmurs "and" Sounds and murmurs of heart "and a textbook in 2 parts: I - Educational DVD-film" Palpation, percussion, auscultation "(the film is available on YouTube), II - Educational film "Palpation, percussion, auscultation" and the textbook "Patient care. Fundamentals of Nursing ": an educational DVD-film recommended by the Ministry of Health of Ukraine as an educational video for students of higher medical educational institutions of I-IV levels of accreditation (the film is available on YouTube)," History. Review: photos of patients ": educational DVD-film, also recommended by the CMC of the Ministry of Health of Ukraine as an educational video for students of higher medical

educational institutions of I-IV levels of accreditation. Propaedeutics to Internal Medicine: Diagnostics; textbook for English learning Students of higher medical schools; Part 1 and Propaedeutics to Internal Medicine: Syndromes and diseases; textbook for English learning Students of higher medical schools; Part 2; Ed. 2 (O.N. Kovalyova, S. Shapovalova, O.O. Nizhegorodtseva).

New methodological techniques are being introduced into the educational process, taking into account modern achievements of pedagogical science, qualitative changes in the contingent of students, as well as in order to optimize work with both gifted and underachieving students. In particular, test tasks are widely used, updated guidelines for medical students (in accordance with the education of students under the Bologna Convention). Individualized and methodically in-depth work with gifted and underachieving students. Gifted students, if desired, are engaged in a student research group, where in-depth study of topics that interest them. Consultations are organized for underachieving students.

Forms of control of the level of knowledge: basic and final test control in practical classes; intermediate test control, as well as final test control.

When assessing the current success in the practical lesson, along with oral control, written control is used in the form of a written answer to unified questions. The final test control consists of two parts: theoretical and practical. The theoretical part provides answers to the questions of test control, and the practical part - demonstration of practical skills (from the list indicated at the end of the module) and analysis of the results of laboratory and instrumental research.

Interactive teaching methods are used during practical classes. In particular, clinical tasks, a case method, a method of clinical games, brainstorming, etc. are involved in the development of professional skills. As part of extracurricular training, students use research methods, the department has a subject research group, students are invited to implement interdisciplinary projects in their research activities and report results at scientific conferences at various levels.

Thus, the organization of the educational process at the department uses the methods that best meet the personality-oriented model of learning.

Types of control: current and final.

Form of final control credit.

Current control is carried out during the training sessions and is aimed at verifying students' learning of the material.

The current control is carried out in accordance with the specific goals of each practical lesson. For control it is recommended to use the following means of diagnosing the level of student training: computer tests, control of practical skills from methods of examination of the patient with further interpretation of the data obtained, analysis of the results of instrumental and laboratory studies.

Assessment of current training activities. When assessing the mastering of each topic for the current educational activity, the student is awarded a 4-point (traditional) scale, taking into account the approved evaluation criteria for discipline. It takes into account all types of works provided for by the curriculum. The student should get an assessment on each topic. Forms of assessment of current educational activities are standardized and include the control of theoretical and practical training.

The grade is "excellent" when the student knows the content of the class and the lecture material in full, illustrating the answers by various examples; provides exhaustively accurate and clear answers without any inquiries; teaches the material without errors and inaccuracies; freely solves problems and performs practical classes of varying degrees of complexity.

The grade is "good" when the student knows the content of the lesson and understands it well, the answers to the questions are presented correctly, consistently and systematically, but they are not exhaustive, although the student answers without any errors for additional questions; solves all the tasks and performs practical classes, attending complexities only in the most difficult cases.

The grade is "satisfactory" for the student on the basis of his knowledge of all the content of the class and at a satisfactory level of his understanding. Student is able to solve modified (simplified) tasks by means of guiding questions; solves problems and performs practical skills, experiencing complexity in simple cases; unable to independently give a systematic answer, but the questions directly answered correctly.

The rating "unsatisfactory" is displayed in cases when the student's knowledge and skills are not in accordance with the requirements of "satisfactory" assessment.

Assessment of independent work:

Assessment of students' independent work, which is envisaged in the topic along with classroom work, is carried out during the current control of the topic at the appropriate classroom session. The evaluation of

topics that are made only for independent work and not included in the topics of classroom training is monitored at the final control.

The final control is conducted to evaluate the results of the training on the national scale and the ECTS scale.

The control is conducted in the form of a differentiated score from the discipline in the amount of study material determined by the work program and in the timeframe established by the work curriculum, the individual student's curriculum.

The maximum number of points that a student can score for the current semester training for admittance to the score is 200 points.

The minimum number of points that the student should collect for the current training semester work for admission to the score is 120 points.

The calculation of the number of points is based on the student's assessment of the traditional scale during the study of discipline, by calculating the average arithmetic (CA), rounded up to two decimal places. The resulting value is converted to a score on a multi-scale scale in the following way:

$$X = CA \times 200 / 5$$

For convenience is shown table 1:

Table 1

4- бальна шкала	200- бальна шкала	4- бальна шкала	200- бальна шкала	4- бальна шкала	200- бальна шкала	4- бальна шкала	200- бальна шкала
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	Менше 3	Недостатньо
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		

Score points are independently converted into both ECTS and 4-point scales. The ECTS scores are not converted in to the 4-point scale 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 (table 2):

Table 2

Points ECTS	The statistical indicator
A	The best 10% of students
B	The next 25% of students
C	The next 30% of students
D	The next 25% of students
E	The last 10% of students

The ECTS mark on a traditional scale is not converted because the ECTS scale and the four-point scale are independent.

METHODICAL SUPPORT (RECOMMENDED BOOKS)

Basic literature

1. Propaedeutics of Internal Medicine: Diagnostics; textbook for English learning Students of higher medical schools; Part 1.; Ed. 2 / O.N. Kovalyova, T.V. Ashcheulova – Vinnytsya: Nova Knyha publishers, 2011. – 424 p.

2. Propaedeutics to Internal Medicine: Syndromes and diseases; textbook for English learning Students of higher medical schools; Part 2; Ed. 2 / O.N. Kovalyova, S. Shapovalova, O.O. Nizhegorodtseva – Vinnytsya: Nova Knyha publishers, 2011. – 264 p.
3. Дзяк Г.В., Нетяженко В.З., Хомазюк Т.А. та ін. Основи обстеження хворого та схема історії хвороби (довідник). – Дн-ск, Арт-прес, 2002.
4. Дзяк Г.В., Хомазюк Т.А., Нетяженко В.З. Основи діагностики внутрішніх хвороб (довідник). – Дн-ск, видавництво ДДМА, 2001.
5. Никула Т.Д., Шевчук С.Г., Мойсеєнко В.О., Хомазюк В.А. Пропедевтика внутрішніх хвороб.- К., 1996.
6. Пропедевтика внутрішніх хвороб з доглядом за хворими / За заг. ред. Спішена А.В. – Тернопіль: Укрмедкнига, 2001
7. Пропедевтика внутрішніх хвороб за ред. Ю.І. Децика, К. “Здоров’я”, 1996.
8. Яворський О.Г., Ющик Л.В. Пропедевтика внутрішніх хвороб у запитаннях і відповідях. К.: “Здоров’я”, 2003.
9. Методичні розробки для аудиторної та позааудиторної підготовки студентів.
10. Навчальний посібник «Комп’ютерні тести з пропедевтики внутрішніх хвороб» (автори В.В. Короткий, А.Б. Новосад). Київ: Здоров’я, 2001 – 148с.
11. Пропедевтика внутрішньої медицини: підручник / Ю.І.Децик, О.Г.Яворський, Р.Я.Дутка та ін.; за ред. проф. О.Г.Яворського. 3-є вид., виправл. і допов. – К.: ВСВ «Медицина», 2013 – 552 с. + 12с. кольор. вкл.
12. Підручник «Основи внутрішньої медицини: пропедевтика внутрішніх хвороб +2 CD» за редакцією професора О.Г. Яворського (співавтори професор Дутка Р.Я., доцент Короткий В.В.) – Київ: Здоров’я, 2004 – 500 с.
13. Пропедевтика внутрішньої медицини: підручник + комплект з 4-х CD (ВНЗ III-IV р.а.) / Ю.І.Децик, О.Г. Яворський, Є.М. Нейко та ін.; за ред. проф. О.Г. Яворського. 4-є вид., виправл. і допов. – К.: ВСВ «Медицина», 2016.- 552 с. + 12с. кольор. вкл.

Additional literature

1. Основи медичних знань та методи лікування за Девідсоном (т.1-2) – пер. с англ., Київ: “Кобза”, 1994.
2. Пелешук А.П., Передерій В.Г., Рейдерман М.І. Фізичні методи дослідження в клініці внутрішніх хвороб.-К.: Здоров’я, 1993.