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State Higher Education University
"Uzhhorod National University"

Department (cycle commission)

"APPROVED"
Dean of Medical Faculty № 2
_____ prof. Kaliy V.V.
"____" _____ 2021

Syllabus for the educational discipline
"Propaedeutics of Internal Medicine"

_____***Propaedeutics of Internal Medicine***_____
(Code and name of the course)

direction of training _____1201, Medicine _____
(Code and name of the field of study)

specialty 7.12.010001, "Medical Work"_____
(Code name and specialty)

specialization
_____
(Name of specialization)

institute, faculty, department _____Medical Faculty _№2_____
(Name of institution, faculty, department)

2021-2022 academic year

The syllabus in Propaedeutics of Internal Medicine for the 3rd year students
(Name of the course)
in the direction of training "Medicine", specialty "Medical Work", – P.10.

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The syllabus was approved at a meeting of department (Subject Commission) of Family Medicine and Outpatient Care

Protocol dated 02.09.2021 number 1

Head of Department (Cycle, Subject Commission)

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(Signature) (surname and initials)

Explanatory note

The program on propedeutics of internal medicine for Ukrainian higher medical educational institutions of III-IV accreditation level was completed for specialties 7.110101 “Medical affair”, 7.11.0104 “Pediatrics”, 7.11.0105 “Medico-prophylactic affair” line of grounding in “Medicine” in accordance with education-qualification characteristics (EQC) and education-professional programs (EPP) of experts training approved by Order of Ukrainian Ministry of Education and Science from 16.04.2003 №239 and experimental educational plan worked out on European Credit Transfer Systems’ principals (ECTS) and agreed by Order of Ukrainian Ministry of Health from 31.01.2005 №52. Education on the above specialties is carried out within 6 years, including the first 5 years of basic medical training.

According to the educational plan, studying of the subject “propedeutic to internal medicine” is carried out in V-VI semesters, when students acquired sufficient knowledge of the main basic disciplines: medical biology, medical and biological physics, anatomy, physiology, bioorganic and biological chemistry, microbiology, virology and immunology. In turn, propedeutics of internal medicine propedeutics generates foundations for further study of clinical subjects - internal medicine, medical psychology, infectious diseases, oncology, anesthesiology and intensive care, which provides the integration of these disciplines "vertically" and forming abilities to apply knowledge of basic methods of examination of internal organs in further education and occupation. The educational process is carried out by the credit system in accordance with the requirements of the Bologna Declaration.

According to the experimental educational plan, the study discipline "Propedeutics of Internal Medicine" consists of 4 credits (130 hours). The program of discipline is structured into modules, which include blocks of content modules. The student workload is described in ECTS credits - offset credits that are transferred to students upon successful mastering of the relevant module (test credit).

The program of the discipline "Propaedeutics of Internal Medicine" includes 6 modules.

Module 1. Introduction to propedeutics of internal diseases
Module 2. Head and neck
Module 3. Chest
Module 4. Abdomen
Module 5. Pelvis
Module 6. Extremities

The types of educational process in according of Educational plan are lectures, practical classes and own students grounding (OSG). The length of practical classes is 3 academic hours that passed in therapeutically clinic and composed from four parts:

1. Training in theoretical material;
2. Demonstration by teacher the methods of patients’ examination on topic;
3. Students training in practical skills near the patient’s bad under the teachers’ control;
4. Passing of practical tasks and test-controls on topic.

The essential place during practical classes has to be devoted for working with the patients in purpose to improve the knowledge in objective methods of examination. Great attention in program traditionally belongs to the particularities of conversation with sick person and opportunity to obtain anamnestic data. In full volume, accordingly to fatherland therapeutic school traditions, the program contains learning of objective methods such as general examination, percussion, palpation and auscultation. Great part is devoted to modern instrumental and laboratory assessment methods. Based on studying the clinical methods of patients’ examination, possibility for their interpretation and analysis, the students will obtain the clinical mentality and skills for making the syndrome diagnosis that is the chief task of propedeutic.

The lecture curse takes one’s bearing for maximal used of different didactic methods – multimedia presentations, films, slides, audio recorders and demonstration of thematic patients. Lecture and practical education as possible have to be formatted in succession the lecture material previous to practical classes.

The own students' grounding in subject has to obtain the important place. Moreover traditionally under- and after auditorium studding in theoretical questions of internal medicine, it has to include the students' work in hospitals, clinical laboratories and functional diagnostic departments in extra auditorium time, which effectiveness have been provided by teachers and additional personal of internal disease departments. The own work includes also patients' curation with next case history presentation.

The departments of internal medicine have the rights to make the changers in this program not more than 15% depending from their scientific and practical direction, organization and diagnostically opportunities of clinical base, but have done in full volume all requirements to subject in accordantly to final orders of EQC and EPP in line of grounding and academic plan.

Daily knowledge control makes on practical classes in according to concrete purposes, intermediate control of enclosure modules – at the last class of each enclosure module. Recommend using the next ways of control: computer tests, situational tasks and control of practical skills from objective methods of examination with future interpretation of obtained data and analyzing of the instrumental and laboratory assessment results.

The final control of modules makes after their finishing on certain classes. Estimation of students' progress in subject is making by rating and put by multilevel scale as middle arithmetical ball for each module and has been define in ECTS system and traditionally scale adopted in Ukraine.

For students that want to improve advancement on subject in ECTS scale, the final control of modules is accomplished accordantly to set documents next to supplementary graphic that confirming previously in establishment of education.

1. The structure of the discipline of «Propaedeutic of internal diseases»

Structure of discipline	Hours/ credits ECTS	Lectures	Practical classes
	136 hours	60	70
	4 credits		
1st semester Amount of enclosure modules **– 3**	60 hours	20	40
2nd semester Amount of enclosure modules **– 3**	70 hours	40	30

2. The purpose of training on subject

The purpose of propaedeutic of internal medicine – **the final aims**, which detected in according to education-professional programs of grounding in "Medicine", is the bases for subject contain formation. On the basis of the final aims for every enclosure module formulated **the concrete aims** in form of definite skills, special purpose tasks, which ensure achievement of final aim of training.

The final aims are placed at the beginning of the program and proceeding to its maintenance, the concrete aims are placed before every enclosure module.

The final aims of propaedeutic to internal medicine:
- To conduct inquiring and objective patients' examination, to analyze obtained data;
- To analyze the results of basic laboratory and instrumental methods of examination;
- To determine the chief symptoms and syndromes in clinic of internal medicine.

3. Programme

Module 1. Introduction to clinic of internal medicine.
The concrete aims:
- To master the basic principles of patients' examination;
- To perform methodically correctly medical inquiring and objective patients' examination;
- To make interpretation between complaints and damage system of the body;
- To generalize the obtained results of inquiring and objective examination in form of chief symptoms and syndromes.

Intermediate knowledge control on enclosure module 1.

Module 2. Head and neck
The concrete aims:
- To perform methodically correctly medical inquiring and objective examination of the patients with head and neck organs diseases;
- To analyze obtained results and distinguish the basic symptoms of systems damage;
- To analyze the results of instrumental and laboratory examination.

Intermediate knowledge control on enclosure module 2.

Module 3. Chest
The concrete aims:
- To perform methodically correctly medical inquiring and objective examination of the patients with respiratory and cardiovascular pathology;
- To analyze obtained results and distinguish the basic symptoms of systems damage;
- To analyze the relationships between obtained results of inquiring and objective examination and generalize them in form of chief symptoms and syndromes.
- To analyze the results of instrumental and laboratory examination.

Intermediate knowledge control on enclosure module 3.

Module 4. Abdomen
The concrete aims:
- To perform methodically correctly medical inquiring and objective examination of the patients with digestive system pathology;
- To analyze obtained results and distinguish the basic symptoms of system's damage;
- To analyze the relationships between obtained results of inquiring and objective examination and generalize them in form of chief symptoms and syndromes.
- To analyze the results of instrumental and laboratory examination.

Intermediate knowledge control on enclosure module 4.

Module 5. Pelvis.
- To perform methodically correctly medical inquiring and objective examination of the patients with renal system pathology;
- To analyze obtained results and distinguish the basic symptoms of system's damage;
- To analyze the relationships between obtained results of inquiring and objective examination and generalize them in form of chief symptoms and syndromes.
- To analyze the results of instrumental (ultrasound examination, X-ray examination) and laboratory (urine tests) examination.

Intermediate knowledge control on enclosure module 5.

Module 6. Extremities

The concrete aims:

- To generalize the obtained results of inquiring, objective and instrumental examination in form of chief symptoms and syndromes.
- To detect the chief syndromes
- To choose the adequate methods of additional examination on certain pathology

Intermediate knowledge control on enclosure module 6

4. The structure of credit

The topic	Lecture	Practical classes
	60	**70**
1.Introduction. The fundamentals of skilled interviewing	2	2
2.Scheme of the case history and Inquiry of the patient.		2
3.Beginning the physical examination: general survey, vital signs, and pain.	2	2
4.OSCE (Headache)	2	2
5.Common and concerning symptoms ("red flags"). Headache, vision, hearing disorders. Examination techniques. Common diseases diagnostic criteria (stroke, migraine, otitis)	2	2
6.The nose and sinuses, mouth and throat examination. Common symptoms and diagnostic criteria. Rhinitis, rhinosinusitis, pharyngitis, laryngitis.		2
7.Neck examination, hyperthyroid and hypothyroid symptoms. Diffuse toxic goiter, autoimmune thyroiditis, myxedema.		2
8.Laboratory and instrumental methods of examination (strep test, ultrasonography, otoscopy)		2
9.OSCE (Catarrhal syndrome)	2	2
10.Common and concerning symptoms (chest pain, dyspnea, wheezing, cough). Examination techniques(palpation, percussion)	2	2
11.Auscultation of lungs. Characteristics of breath sounds.		2
12.Acute pulmonary embolism, pneumothorax, COVID-19	2	2
13.COPD, astma, pneumonia		2

The topic	Lecture	Practical classes
	60	**70**
14.Instrumental methods of examination (x-ray, spirometry, peak flow meter, pulse oximetry) The breasts and axillae examination		2
15.Common and concerning symptoms of cardiovascular pathology. (Chest pain, palpitations, shortness of breath, edema)	2	2
16.Cardiac examination. (inspection, palpation, auscultation of heart)		2
17.ECG registration, normal ECG		2
interpretation.		2
18.ECG-signs of CAD, cardiac arrhythmias		2
19.CAD, hypertension	2	2
20. OSCE (Chest pain)	2	2
Hours –	**20**	**40**

The topic	Lecture	Practical classes
21. Common and concerning symptoms. (abdominal pain, bleeding from bowel, anemia, unexplained weight loss, changes in bowel habits, fever, persistent indigestion, skin changes color – yellow or darker)	2	2
22. Examination techniques (inspection, palpation, percussion, auscultation). Acute abdomen. Dyspepsia, GERD, ulcers	4	2
23. Hepatitis, liver cirrhosis, cholecystitis	2	2
24. Diarrhea, constipation, IBS. Laboratory and instrumental methods of examination	4	2
25. OSCE (Dyspepsia, Diarrhea)	2	2
26. Common and concerning symptoms (low back pain, suprapubic pain, dysuria, polyuria or nocturia, urinary incontinence, hematuria, kidney pain, ureteral colic)	4	2
27. Examination techniques (inspection, palpation of kidneys).	2	2
28. Urinary tract infections, glomerulonephritis. Laboratory and instrumental methods of examination, urinalysis interpretation	4	2
29. OSCE (Dysuria)	2	2
30. Common and concerning symptoms (joint pain, fever, rash, weight loss, weakness)	2	2
31. Examination techniques (inspection, palpation of joints)	2	2
32. Osteoporosis risk factors, rheumatoid	4	2

arthritis. densitometry		
33. Anemia (etiology, clinical presentation, CBC interpretation)	4	2
34. OSCE (Joint pain, Chronic fatigue)	2	2
35. Final module control		2
The hours -	**40**	**30**
Total hours - 136	**60**	**70**

5. THEMATIC PLAN OF LECTURES ON "PROPEDEUTICS OF INTERNAL MEDICINE"

Lectures (1st semester)

№	Topic	Hours
1.	Introduction to propedeutics of internal medicine. The fundamentals of skilled interviewing	2 h.
2.	Beginning the physical examination: general survey, vital signs, and pain	2 h.
3.	OSCE (Headache)	2 h.
4.	Common and concerning symptoms ("red flags"). Headache, vision, hearing disorders. Examination techniques. Common diseases diagnostic criteria (stroke, migraine, otitis)	2 h.
5.	OSCE (Catarrhal syndrome)	2 h.
6.	Common and concerning symptoms of respiratory pathology (chest pain, dyspnea, wheezing, cough). Examination techniques(palpation, percussion)	2 h.
7.	Acute pulmonary embolism, pneumothorax, COVID-19. OSCE	2 h.
8.	Common and concerning symptoms of cardiovascular pathology. (Chest pain, palpitations, shortness of breath, edema)	2 h.
9.	CAD, hypertension	2 h.
10.	OSCE (Chest pain)	2 h.
	IN COMMON:	**20 h.**

Lectures (2nd semester)

	Topic	Hours
1.	Common and concerning symptoms. (abdominal pain, bleeding from bowel, anemia, unexplained weight loss, changes in bowel habits, fever, persistent indigestion, skin changes color)	2
2.	Examination techniques (inspection, palpation, percussion, auscultation). Acute abdomen. Dyspepsia, GERD, ulcers	4
3.	Hepatitis, liver cirrhosis, cholecystitis	2
4.	Diarrhea, constipation, IBS. Laboratory and instrumental methods of examination	4
5.	OSCE (Dyspepsia, Diarrhea)	2
6.	Common and concerning symptoms (low back pain, suprapubic pain, dysuria, polyuria or nocturia, urinary incontinence, hematuria, kidney pain, ureteral colic)	4
7.	Examination techniques (inspection, palpation of kidneys).	2
8.	Urinary tract infections, glomerulonephritis. Laboratory and instrumental methods of examination, urinalysis interpretation	4
9.	OSCE (Dysuria)	2
10	Common and concerning symptoms (joint pain, fever, rash, weight loss, weakness)	2
11	Examination techniques (inspection, palpation of joints)	2
12	Osteoporosis risk factors, rheumatoid arthritis. densitometry	4
19	Anemia (etiology, clinical presentation, CBC interpretation)	4

	Topic	Hours
20	OSCE (Joint pain, Chronic fatigue)	2
IN COMMON:		**40h**
TOTAL:		60h

6. THEMATIC PLAN OF PRACTICAL CLASSES IN PROPEDEUTICS OF INTERNAL DISEASES

1st semester

№	Topic	Hours
	Module 1. Introduction to propedeutics of internal diseases	
1.	Introduction. The fundamentals of skilled interviewing	2 h.
2.	Scheme of the case history and Inquiry of the patient.	2 h.
3.	Beginning the physical examination: general survey, vital signs, and pain.	2 h.
4.	OSCE (Headache)	2 h.
	Module 2. Head and neck	
5.	Common and concerning symptoms ("red flags"). Headache, vision, hearing disorders. Examination techniques. Common diseases diagnostic criteria (stroke, migraine, otitis)	2 h.
6.	The nose and sinuses, mouth and throat examination. Common symptoms and diagnostic criteria. Rhinitis, rhinosinusitis, pharyngitis, laryngitis.	2 h.
7.	Neck examination, hyperthyroid and hypothyroid symptoms. Diffuse toxic goiter, autoimmune thyroiditis, myxedema.	2 h.
8.	Laboratory and instrumental methods of examination (strep test, ultrasonography, otoscopy)	2 h.
9.	OSCE (Catarrhal syndrome)	2 h.
	Module 3. Chest	
10.	Common and concerning symptoms (chest pain, dyspnea, wheezing, cough). Examination techniques(palpation, percussion)	2 h.
11.	Auscultation of lungs. Characteristics of breath sounds.	2 h.
12.	Acute pulmonary embolism, pneumothorax, COVID-19	2 h.
13.	COPD, astma, pneumonia	2 h.
14.	Instrumental methods of examination (x-ray, spirometry, peak flow meter, pulse oximetry) The breasts and axillae examination	2 h.
15.	Common and concerning symptoms of cardiovascular pathology. (Chest pain, palpitations, shortness of breath, edema)	2 h.
16.	Cardiac examination. (inspection, palpation, auscultation of heart)	2 h.
17.	ECG registration, normal ECG interpretation.	2 h.
18.	ECG-signs of CAD, cardiac arrhythmias	2 h.
19.	CAD, hypertension	2 h.
20.	OSCE (Chest pain)	2 h
	IN COMMON:	40 h.

2nd semester

	Topic	Hours
	Module 4. Abdomen	
21.	Common and concerning symptoms. (abdominal pain, bleeding from bowel, anemia, unexplained weight loss, changes in bowel habits, fever, persistent indigestion, skin changes color – yellow or darker)	2 h.
22.	Examination techniques (inspection, palpation, percussion, auscultation).	2 h.

	Acute abdomen. Dyspepsia, GERD, ulcers	
23.	Hepatitis, liver cirrhosis, cholecystitis	2 h.
24.	Diarrhea, constipation, IBS. Laboratory and instrumental methods of examination	2 h.
25.	OSCE (Dyspepsia, Diarrhea)	2 h.
	Module 5. Pelvis	
26.	Common and concerning symptoms (low back pain, suprapubic pain, dysuria, polyuria or nocturia, urinary incontinence, hematuria, kidney pain, ureteral colic)	2 h.
27.	Examination techniques (inspection, palpation of kidneys).	2 h.
28.	Urinary tract infections, glomerulonephritis. Laboratory and instrumental methods of examination, urinalysis interpretation	2 h.
29.	OSCE (Dysuria)	2 h.
	Module 6. Extremities	
30.	Common and concerning symptoms (joint pain, fever, rash, weight loss, weakness)	2 h.
31.	Examination techniques (inspection, palpation of joints)	2 h.
32.	Osteoporosis risk factors, rheumatoid arthritis. densitometry	2 h.
33.	Anemia (etiology, clinical presentation, CBC interpretation)	2 h.
34.	OSCE (Joint pain, Chronic fatigue)	2 h.
35.	Final module control	2 h.
	IN COMMON:	**30** Hours**.**
	TOTAL	**70** Hours**.**

7. Individual work

No.	Topic	Number of hours
1	Preparation for the final credit	3
2.	Preparation for the practical classes topics	3
	Total	**6**

8. THE FORMS OF STUDENTS CONTROL AND ASSESSMENT

The control forms and assessment system realize accordingly to requirements of discipline program and Instruction about education assessment system in educational process organization credit-module system, which confirmed by Ukrainian Ministry of Health (2005).

The module estimation is defined as a sum of estimations of current educational activity (in balls) and estimation of final module control (in balls), which puts during the assessment of theoretic knowledge and practical skills accordingly to list that defined by program.

The maximal amount of balls, which assign to the students during adoption of every module (final knowledge control) – 200, including for current educational activity – 120 balls (60%), for results of final knowledge control – 80 balls (40%).

The current control realized according to concrete purposes on every practical class. The adoption of contents modules (intermediate control) realize on final class of every contents module. It is recommended to use next diagnostic methods to assess students preparing level: computer tests, control of practical skills of examination methods with future interpretation of obtained data, analysis of instrumental and laboratory investigation results.

Assessment of current educational activity:

The volume of every topic within one module should be equal and depends of amount topics in the module.

The estimation of "Propedeutics of internal medicine" discipline is rating and defined with a glance of student current educational activity and estimations of modules adopting. The current students assessment on corresponding topics conducts in traditional 4-balls system (excellently, well, satisfactorily, unsatisfactorily) with future recalculation into the multiballs scale.

Mark "excellently" puts in case when student knows contents of topic and lecture data in comprehensive volume, illustrates answers by different examples; gives exact and clear answers without any additional questions, represent data without mistakes; freely solve tasks and perform practical skills with different range of difficulty.

Mark "well" puts when student knows contents of topic and well understand it, gives correctly answers on questions, in sequence and systematic form but they aren't comprehensive while on additional questions the student represent data without mistakes; solves all tasks and perform practical skills felling the complications only in high range of difficulty.

Mark "satisfactorily" puts when student knows contents of topic and satisfactorily understand it. The student can solve simplified tasks with the aid of additional questions; solves tasks and perform practical skills felling the difficulties in the simple cases. The student cannot make systematical report by himself, but on direct questions can give right answers.

Mark "unsatisfactorily" puts in cases when knowledge and skills are not correspond to "satisfactorily" mark.

The assessment of independent work:

The assessment of independent work, which provided in topic together with auditory work, realizes during current topic control on corresponding class. The assessment of that topic, which associated to independent work, but not to auditory work, controls on the final module control.

Criteria for evaluation during module 1.

Maximum balls in students assessment in studying of semester 1.

1st semester																								
module 1					module 2					module 3												Case history	Own students grounding	Control
№ of topic	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**				
Max. ball	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		10	30	40

Recalculation of current student progress in studying of module 1:

Mark "excellently" – 5 balls

Mark "well" – 4 balls

Mark "satisfactorily" – 3 balls

Mark "unsatisfactorily" – 0 balls

The student can receive maximum 120 balls for current educational activity. This mark calculates by multiplying amount of balls, which corresponds of mark "excellently", on amount of topics in module with adding balls for own students grounding (maximum 7) and mark for case history (maximum 3).

Criteria of evaluation of history writing which is provided at the module 1:

3 balls - written methodically right, without comments;

2 balls - written methodically right, but some sections lacks detail;

1 balls - there are some comments on the detail description of the sequence of chapters;

0 balls - a violation of rules of the scheme and writing history (in this case, the student has to rewrite the case history based on the teacher's comments).

Minimal amount of balls, which student can receive in module, calculates by multiplying amount of balls, which corresponds of mark "excellently", on amount of topics in module: 3 x 22 + 1 = 67.

Final module control from module 1.

To final module control admits that students, which performed the program of this module and received not less then 66 balls for current progress.

The final module control from module 1 provides answers on 40 questions of text control, demonstration of practical skill (from list at the end of module) and analysis of instrumental patients examination (situation task). The maximal amount of balls, which student can receive during module control, is 80. Herewith maximal mark for test control – 40 balls, by the situational problem

solving – 10 balls, for practical skills demonstation – 30 balls.
Criteria for evaluation of practical skills, made no mistakes - 30 balls; performed with minor shortcomings corrected at runtime by students - 20 balls; performed with disabilities, adjusted teacher - 10 balls; failed - 0 balls.
The final module control is taken into consideration if student receives not less than 50 balls (at least 30 points for test control, 10 points for solving situational tasks 10 points for demonstration of practical skills).

Criteria for evaluation students during a module 2.

Maximum balls in students assessment in studying of module 2.

Модуль 2. Симптоми та синдроми при захворюваннях внутрішніх органів																	
Module 4						Module 5				Module 6						Own students grounding	Control
№ of topic	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
Max. ball	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	15	80

Recalculation of current student progress in studying of module 2:
Mark “excellently” – 9 balls
Mark “well” – 6 balls
Mark “satisfactorily” – 3 balls
Mark “unsatisfactorily” – 0 balls
The student can receive maximum 120 balls for current educational activity (multiplying amount of balls, which corresponds of mark “excellently”, on amount of topics in module with adding balls for own students grounding: 9 x 12 + 12 = 120).
Criteria of evaluation of history writing which is provided at the module 2:
12 balls - written methodically right, without comments;
8 balls - written methodically right, but some sections lacks detail;
4 balls - there are some comments on the detail description of the sequence of chapters;
0 points - a violation of the rules of case history scheme writing, there are significant errors describing the results of physical examination methods (in this case, the student is given an opportunity to rewrite the case history based on the teacher’s comments)

The final module control from module 2.

To final module control admits that students, which performed the program of this module and received not less then 40 balls for current progress.
The final module control from module 2 provides answers on 50 questions of text control, demonstration of practical skill (from list at the end of module) and analysis of instrumental / laboratory patients examination.. The maximal amount of balls, which student can receive during module control, is 80. Herewith maximal mark for test control – 50 balls, for practical skills demonstation – 15 balls, for analysis of instrumental / laboratory patients examination – 20 balls.
Criteria for evaluation of practical skills in the final control module 2: performed without errors – 15 points; performed with some shortcomings corrected at runtime by student – 10 points; performed with disabilities, adjusted teacher – 5 points; failed - 0 points).
Evaluation criteria for analysis of the laboratory/instrumental investigations results in the final control module 2: correctly analyzed - 15 points; the analysis made some mistakes that student self-corrects 10 points; the analysis made some mistakes that student teacher corrects the following observations - 5 points; Target missed - 0 points).
The final module control is taken into consideration if student receives not less than 45 balls (at least 35 points for the test control, 5 - in the practical skills 5 - for analysis of laboratory / instrumental investigation).

The discipline assessment

The estimation on propedeutics of internal disease makes only to those students, which have all completed discipline modules. The estimation of discipline is a middle of all module marks, on which structured educational discipline.

The encouraging balls by Scientific Council decision may be added to amount of discipline balls to those students, which have scientific publications or prizes for participation into discipline olympiad between high educational institutions of Ukraine and etc.
The objectivity of students educational activity assessment should be checked by statistical methods (correlation coefficient between current progress and final module control results).
Enveloping of discipline balls amount into marks by ECTS scale and 4-balls scale (traditional).
The amount of discipline balls, that taken into consideration to students, envelopes to ECTS scale in this way:

Marks by ECTS	Statistical factor
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 percent of students defines in this group of students in the range of corresponding specialty

Marks by ECTS	Marks by 4-balls scale
A	“5”
B, C	“4”
D, E	“3”
FX, F	“2”

The discipline mark FX, F (“2”) is given to students, which have not any discipline module that taken into consideration.
The mark FX, F (“2”) is given to students, which have minimal amount of balls for current educational activity, but did not delivery final module control. They have the right to repeat the final module control not more then twice during two additional weeks after finishing of spring semester by schedule approved by rector.
The students, which received mark F on finish of discipline studying (if they did not perform even one module of educational program or did not receive minimal balls amount for current educational activity), must perform repeated education of corresponding module. This decision is taken by head of high educational institution according to normative documents, approved in specified order

Assessment criteria for academic achievement of students

Grading scale: national and ECTS

Total points for all the educational activities	Rating ECTS	Evaluation on the national scale	
		for examination, course project (work) practice	to offset
180 - 200	**A**	Excellent	Passed
165 - 179	**B**	Good	
148 - 164	**C**		
128 - 147	**D**	Satisfactory	
120 - 127	**E**		
70 - 119	**Fx**	Unsatisfactory with the possibility of re-drafting	not credited with the possibility of re-drafting
0 - 69	**F**	Unsatisfactory with obligatory repeated study of discipline	not credited with a mandatory re-learning course

Students' theoretical knowledge and practical skills assessment criteria:
Score is "excellent" (180-200 points, A) for student who: - comprehensively and deeply possesses educational and program material; - can independently carry out the tasks provided by the program, use the acquired knowledge and skills in non-standard situations; - mastered the basic and familiar with the additional literature which are recommended by the program; - he has mastered

the interconnection of the basic concepts of discipline and is aware of their importance for the profession he acquires; - freely expresses own thoughts, independently evaluates various life events and facts, revealing a personal position; - independently defines separate goals of own educational activity, has shown creative abilities and uses them in studying educational and program material, showed a tendency to scientific work.

The score is "good" (165-179 points, B) - for student who: - fully mastered educational and program material, including applying it in practice, has systemic knowledge sufficiently in accordance with the educational- Program material, it is reasonably used in different situations; - Has the ability to independently seek information, as well as to analyze, formulate and solve problems of professional orientation; - during the answer made some inaccuracies, which themselves corrected, finds convincing arguments to confirm the studied material;

A "good" score (148-164 points, C) deserves a student who: - in general, has mastered the curriculum, but answers the exam with a certain number of mistakes; - is able to compare, generalize, systematize information under the direction of a teacher, as a whole independently apply in practice, control his own activities; - mastered educational and program material, successfully completed tasks envisaged by the program, mastered the main literature recommended by the program;

"Satisfactory" (128-147 points, D) for student who: - knows the main curriculum material to the extent necessary for further study and use in the future profession; - does a good job, but with a lot of errors; - familiar with the main literature recommended by the program; - allows for classes or exam errors in the execution of tasks, but under the guidance of a teacher finds ways to eliminate them.

A "satisfactory" rating (120-127 points, E) - a student deserves to be: - possesses the basic educational and programmed material to the extent necessary for further study and use in the future profession, and the fulfillment of tasks satisfies the minimum criteria. Knowledge has a reproductive character.

"Unsatisfactory" (70-119 points, FX) - is presented to the student, who: has revealed significant gaps in knowledge of the main program material, made fundamental mistakes in the implementation of the tasks provided by the program.

Score is "unsatisfactory" (0-69 points, F) - for student who: - know the educational material only at the level of elementary recognition and reproduction of individual facts or does not possess at all; - admits gross mistakes in the execution of the tasks provided by the program; - can not continue education and is not ready for professional work after graduation without re-studying this discipline.

9. LIST OF EDUCATIONAL MATERIALS

Basic Literature:

1. Bates' Guide to Physical Examination & History Taking by Lynn S. Bickley MD FACP
2. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 & Vol.2) 20th Edition by J. Larry Jameson, Anthony Fauci, Dennis Kasper, Stephen Hauser, Dan Longo, Joseph Loscalzo
3. Goldman-Cecil Medicine, 2-Volume Set 25th Edition by Lee Goldman MD, Andrew I. Schafer MD
4. Pocket Medicine: The Massachusetts General Hospital Handbook of Internal Medicine 6th Edition by Marc S Sabatine

10. Additional:

1. On Rounds: 1000 Internal Medicine Pearls by Dr. Lewis Landsberg MD
2. Step-up to Medicine 4th Edition by Steven S. Agabegi
3. https://www.medscape.com/
4. https://www.uptodate.com/