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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTE PATRICE LUMUMBA
RUDN University**

Institute of Medicine

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Internal Medicine

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

**The course instruction is implemented within the professional education
programme of higher education:**

Dentistry

higher education programme profile/specialisation title

2025

1. COURSE GOAL(s)

The discipline "Internal Medicine" is included in the program of the specialty "Dentistry" in the direction 31.05.03 "Dentistry" and is studied in the 5th, 6th, 7th semesters of the 3rd and 4th years. The discipline is implemented by the Department of Internal Diseases with the course of cardiology and functional diagnostics named after Academician V.S. Moiseyev. The discipline consists of 2 sections and 15 topics and is aimed at studying the main symptoms and syndromes of internal diseases, clinical and additional research methods, mastering the methodology of constructing a diagnosis and principles of treatment.

The goal of the course is for students to acquire knowledge about professional skills for examining a patient, as well as to develop professional medical and general cultural competence in matters of the structural organization of the main processes of the body's vital activity.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Internal Medicine" is aimed at the development of the following competences /competences in part GPC-5, GPC-6, GPC-10.

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-10	Capable of organizing the work of junior and mid-level medical personnel in caring for patients	GPC-10.2 Monitors and evaluates the quality of medical care;
GPC - 5	Capable of examining a patient to establish a diagnosis when solving professional problems	GPC-5.1. Collects anamnesis, analyzes patient complaints, conducts physical examination at a dental appointment. GPC-5.2. Formulates a preliminary diagnosis and draws up a plan for laboratory and instrumental examinations of a dental patient. GPC-5.3. Prepares medical documentation for a dental patient in accordance with regulatory requirements. GPC-5.4. Refer the patient for laboratory examination if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on issues of providing medical care, taking into account the standards of dental care. GPC-5.5. Refer the patient for instrumental examination if there are medical indications in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on issues of providing dental care, taking into account the standards. GPC-5.6. Refer the patient for consultation with medical specialists if there are medical

		indications in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on issues of providing dental care taking into account the standards. GPC-5.7. Refer the patient for specialized medical care in an inpatient setting or in a day hospital setting if there are medical indications in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on issues of providing dental care. GPC-5.8. Conducts differential diagnostics with other diseases/conditions, including emergency ones. GPC-5.9. Establishes a diagnosis taking into account the current international statistical classification of diseases and health problems.
GPC - 6	Capable of prescribing, monitoring the effectiveness and safety of non-drug and drug treatment when solving professional problems	GPC-6.1. Develops a treatment plan for a dental disease taking into account the diagnosis, age and clinical picture in accordance with current procedures for the provision of medical care, clinical recommendations (treatment protocols) on issues of providing medical care taking into account the standards of medical care. GPC-6.2. Selects medical products (including dental materials) to draw up a comprehensive treatment plan for dental diseases. Monitors the further course of the patient's treatment. GPC-6.3. Assesses possible side effects from taking medications. GPC-6.4. Provides medical care to a dental patient in urgent or emergency situations. GPC-6.5. Organizes the prevention and treatment of complications, side effects, adverse reactions, including unexpected ones, arising as a result of diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment at a dental appointment . GPC-6.6. Organizes personalized treatment of dental patients, including elderly and senile patients, pregnant women, children with somatic pathologies, evaluates the effectiveness and safety of treatment. GPC-6.7. Prescribes medications and medical devices taking into account the diagnosis, age and clinical picture, and in accordance with the current procedures for the provision of medical

		care, clinical recommendations (treatment protocols) on issues of providing medical care, taking into account the standards of medical care. GPC-6.8. Prescribes non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on issues of providing medical care, taking into account the standards of medical care. GPC-6.9. Assesses the effectiveness and safety of the use of drugs, medical devices and other methods of treatment during a dental appointment.
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3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GPC-6	Capable of prescribing, monitoring the effectiveness and safety of non-drug and drug treatment when solving professional problems	Immunology, clinical immunology; Caries and diseases of hard dental tissues; Materials science; Life safety;	Neurology; Periodontology; Pediatrics; Psychiatry and narcology; Clinical pharmacology; Medical rehabilitation; Gnathology and functional diagnostics of the temporomandibular joint; Dermatovenereology; Pediatric dentistry; Pediatric maxillofacial surgery; Diseases of the head and neck; Implantology and reconstructive surgery of the oral cavity; Medical genetics in dentistry; Orthodontics and pediatric prosthetics; Prosthetic dentistry of dentition

			(complex prosthetics); Maxillofacial and gnathic surgery; Maxillofacial prosthetics; Gerontostomatology and diseases of the oral mucosa; Clinical dentistry;
GPC- 5	Capable of prescribing, monitoring the effectiveness and safety of non-drug and drug treatment when solving professional problems	Caries and diseases of hard dental tissues; Propaedeutics of dental diseases;	Assistant to a dentist (orthopedist); Gnathology and functional diagnostics of the temporomandibular joint; Dermatovenereology; Pediatric dentistry; Pediatric maxillofacial surgery; Medical genetics in dentistry; Orthodontics and pediatric prosthetics; Prosthetic dentistry of dentition (complex prosthetics); Maxillofacial prosthetics; Gerontostomatology and diseases of the oral mucosa; Periodontology; Neurology; Pediatrics; Psychiatry and narcology; Diseases of the head and neck; Implantology and reconstructive surgery of the oral cavity; Maxillofacial and gnathic surgery;
GPC-10	Capable of organizing the work of junior and mid-level medical personnel in caring for patients	Practice in obtaining primary professional skills and abilities in the positions of mid-level medical personnel (Assistant to ward and procedure room medical staff ; Organization of general patient care;	Practice in obtaining primary professional skills and abilities in the positions of mid-level medical personnel (Assistant to ward and procedure room medical staff ; Organization of general patient care;

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course “Internal Medicine” is 7 credits (252 academic hours).

*Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)**

Type of academic activities		Total academic hours	Semesters/training modules		
			5	6	7
<i>Contact academic hours</i>		170	68	54	48
including:					
Lectures (LC)					
Lab work (LW)		170	68	54	48
Seminars (workshops/tutorials) (S)					
<i>Self-studies</i>		49	28	15	6
<i>Evaluation and assessment (exam/passing/failing grade)</i>		33	12	3	18
Course workload	academic hours	252	108	72	72
	credits	7	3	2	2

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Section 1. Methods of examining the patient	1.1. Introduction to the subject of propaedeutics of internal diseases. Methods of examining a patient. Scheme of the case history. 1.2. Methods of examining a patient with respiratory diseases. Main syndromes. Lung diseases (pneumonia, pleurisy, obstructive pulmonary diseases, bronchial asthma, bronchiectasis, lung abscess). 1.3. Methods of examining a patient with cardiovascular diseases. Main syndromes. Cardiovascular diseases (rheumatic fever, arterial hypertension, ischemic heart disease, myocardial infarction, acute coronary syndrome). 1.4. Methods of examination of a patient with gastrointestinal diseases. Main syndromes. Gastrointestinal diseases (gastritis, peptic ulcer) 1.5. Methods of examining a patient with liver diseases. Main syndromes. Liver diseases (hepatitis, cirrhosis). 1.6. Methods of examination of a patient with kidney diseases. Main syndromes. Diseases of the excretory organs (pyelonephritis, glomerulonephritis). 1.7. Methods of examining a patient with blood diseases. Main syndromes. Diseases of the blood-forming organs (anemia, leukemia). 1.8. Methods of examination of a patient with	LW

	endocrine system diseases. Main syndromes. Diseases of the endocrine system organs (thyrotoxicosis, hypothyroidism, diabetes mellitus) .	
Section 2. Diseases of internal organs	2.1. Diseases of the respiratory system: etiology, pathogenesis, features of clinical manifestations and complications of lung diseases; principles of treatment of pulmonary pathology (pneumonia, COPD, bronchial asthma, lung cancer, tuberculosis). 2.2. Diseases of the circulatory system: etiology, pathogenesis , features of clinical manifestations and complications of diseases of the heart and blood vessels; principles of treatment of cardiac pathology (rheumatism, heart defects, infective endocarditis, coronary heart disease, ACS, cardiomyopathy, arterial hypertension, cardiac arrhythmia, heart failure, ECG, echocardiography). 2.3. Diseases of the gastrointestinal tract and liver: etiology, pathogenesis, features of clinical manifestations and complications of diseases of the gastrointestinal tract and liver; principles of treatment (peptic ulcer, diseases of the small and large intestine, acute and chronic hepatitis, liver cirrhosis). 2.4. Kidney diseases: etiology , pathogenesis, features of clinical manifestations and complications of lung diseases; principles of treatment of renal pathology (glomerulonephritis, amyloidosis, pyelonephritis, acute and chronic renal failure, hemodialysis, kidney transplantation). 2.5. Blood diseases: etiology, pathogenesis, features of clinical manifestations and complications of blood diseases; principles of treatment (anemia, acute and chronic leukemia). 2.6. Diseases of the endocrine system: etiology, pathogenesis, features of clinical manifestations and complications of thyroid diseases, diabetes mellitus; principles of treatment. 2.7. Joint diseases: etiology , pathogenesis, clinical features, diagnostics, complications, treatment (gout, deforming osteoarthritis, rheumatoid arthritis, ankylosing spondylitis, reactive and paraneoplastic arthritis).	LW

* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Computer lab	A computer room for conducting classes, group and individual consultations, ongoing monitoring and midterm assessment, equipped with personal computers (1 unit), a board (screen) and technical means for multimedia presentations.	Software: Microsoft products (OS, office suite, incl . MSOffice / Office 365), laptops, multimedia projectors.
Seminar	An auditorium for conducting seminar-type classes, group and individual consultations, ongoing monitoring and midterm assessment, equipped with a set of specialized furniture and technical means for multimedia presentations.	Software: Microsoft products (OS, office suite, incl . MSOffice / Office 365), laptops, multimedia projectors. Handouts in the form of tests, methodological publications. Mannequins for auscultation SAM, Abdominal examination simulator for palpation, percussion and auscultation, Mannequins for physical examination. Devices: ECHO -KG , ECG, fibroscan
Self-studies	A classroom for independent work of students (can be used for conducting seminars and consultations), equipped with a set of specialized furniture and computers with access to the Electronic Information System.	Software: Microsoft products (OS, office suite, including MSOffice / Office 365), laptops, multimedia projectors.

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. V.Vasilenko and A.Grebenev . Internal diseases: An introductory course : For medical students / Ed. by. - Book on English language . - Moscow: Mir, 1987. - 623 p.: il. - 4.18.
2. EK Shavarova , MA Efremovtseva , EA Troitskaya [et al.]; edited Zh.D. Kobalava . Respiratory diseases: Syndromes, Key Points and Clinical Cases = Diseases organs breathing : syndromes , key moments And clinical tasks : study guide for internal medicine for students of 3, 4 courses of faculty on a specialty "General Medicine" and "Dentistry". - Book on English language - Moscow: PFUR, 2020. - 46 p. - ISBN 978-5-209-09841-6 : 31.58.
3. UV Stavtseva , EA Troitskaya , MA Efremovtseva [and etc.]; Edited Zh.D. Kobalava . Endocrine Disorders : Syndromes , Key Points and Clinical Cases = Diseases of the endocrine organs: syndromes, key points and clinical tasks: a teaching aid on propaedeutics of internal diseases for foreign students of 3-4 years studying in the specialties "General Medicine", "Dentistry": study Guide for Internal Medicine / - Book in English; electronic text data. - Moscow : RUDN, 2019. - 48 p. - ISBN 978-5-209-09902-4: 30.52.
https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=486631&idb=0

4. MA Efremovtseva , UV Stavtseva , EK Shavarova [et al.]; edited Zh.D. Kobalava Blood Disorders: Syndromes, Key Points and Clinical Cases = Diseases organs hematopoiesis : syndromes , key moments And clinical tasks : study guide for internal medicine for students of 3, 4 courses of facility on a specialty "General Medicine" and "Dentistry". - Book on English language - Moscow: PFUR, 2020. - 42 p. - ISBN 978-5-209-10266-3: 30.01.
5. UV Stavtseva , MA Efremovtseva , EK Shavarova [et al.]; edited Zh.D. Kobalava . Cardiovascular diseases: Syndromes, Key Points and Clinical Cases = Diseases organs blood circulation : syndromes , key moments And clinical tasks : study guide for internal medicine for students of 3, 4 courses of facility on a specialty "General Medicine" and "Dentistry" / - Book on English language - Moscow: PFUR, 2020. - 84 p. - ISBN 978-5-209-09836-2: 45.56.
6. EA Tereshchenko, MA Efremovtseva , EK Shavarova [et al.]; edited Zh.D. Kobalava . Gastrointestinal and liver diseases: Syndromes, Key Points and Clinical Cases = Diseases organs digestion And liver : syndromes , key moments And clinical tasks : study guide for internal medicine for students of 3, 4 courses of facility on a specialty "General Medicine" and "Dentistry". - Book on English language - Moscow: PFUR, 2020. - 78 p. - ISBN 978-5-209-10290-8: 10/45.
7. MA Efremovtseva , EK Shavarova , EA Troitskaya [et al.]; edited Zh.D. Kobalava . Kidney diseases: Syndromes, Key Points and Clinical Cases = Diseases kidneys : syndromes , key moments And clinical tasks : study guide for internal medicine for students of 3, 4 courses of facility on a specialty "General Medicine" and "Dentistry" - Book on English language - Moscow: PFUR, 2020. - 28 p. - ISBN 978-5-209-10267-0 : 24.33.
8. J.D. Kobalava , M.A. Efremovtseva , E.E. Shkolnikova. Medical history with an excellent mark = Perfect Medical History : a teaching aid in Russian and English / - Electronic text data. - M .: RUDN, 2018. - 96 p. - ISBN 978-5-209-08834-9: 67.71.
https://lib.rudn.ru/443/MegaPro/UserEntry?Action=Link_FindDoc&id=470068&idb=0
9. Joshua M. Liao-Zahir Kanjee . Internal Medicine Evidence / Joshua M. Liao-Zahir Kanjee . - Wolters Kluwer Health, 2017. - ISBN 9781496343550.

Additional readings

1. J. Thomas . Oxford handbook of clinical examination and practical skills.
2. Harrison's Principles of Internal Medicine 21st Edition . (download link <https://www.vet-ebooks.com/harrisons-principles-of-internal-medicine-pdf/>)
3. [Michael Glynn MA MD FRCP FHEA](#) , [William M Drake DM FRCP](#) . Hutchison's Clinical Methods: An Integrated Approach to Clinical Practice 24th Edition.
4. 14. Longo D., Fauci AS, Kasper DL, Hauser SL, Larry JJ, Loscalzo J., eds. Harrison's Principles of internal medicine. 21st ed. New York: McGraw Hill Medical; 2022.

Resources of the information and telecommunications network "Internet":

databases , information and reference systems and search systems

1. TUIS - Telecommunication educational and information system. <http://esystem.rudn.ru/> 2. RUDN EBS and third-party EBS, to which the university students have access on the basis of concluded agreements:
 - Electronic library system of RUDN - EBS RUDN <http://lib.rudn.ru/MegaPro/Web>
 - Electronic library system "University library online" <http://www.biblioclub.ru>
 - EBS Yurait <http://www.biblio-online.ru>
 - Electronic library system "Student Consultant" www.studentlibrary.ru
 - EBS "Lan" <http://e.lanbook.com/>
 - [Electronic library system "Troitsky Bridge"](#)
3. Databases and search engines:

- electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine [https:// www .yandex.ru/](https://www.yandex.ru/)
- Google search engine <https://www.google.ru/>
- SCOPUS abstract database [http:// www .elsevierscience.ru/ products / scopus /](http://www.elsevierscience.ru/products/scopus/)
- 4. Medline Catalog. MedLine contains all articles collected in three major medical reference books: International Nursing Index , Index Medicus , Index to Dental Literature .
<http://www.medline-catalog.ru/>
- 5. Biomedical journal Medline.ru. The site contains original articles on various areas of medicine. <http://www.medline.ru>

Educational and methodological materials for independent work of students in mastering a discipline/module:*

- Methodological instructions for completing and designing tests and independent work on the subject.

* - all educational and methodological materials for independent work of students are posted in accordance with the current procedure on the discipline page **in TUIS !**

8. ASSESSMENT MATERIALS AND POINT-RATING SYSTEM FOR ASSESSING THE LEVEL OF DEVELOPMENT OF COMPETENCES IN THE DISCIPLINE

Assessment materials and a point -rating system* for assessing the level of development of competencies (part of competencies) based on the results of mastering the discipline " **Internal Medicine** " are presented in the Appendix to this Work Program of the discipline

DEVELOPER:

Associate Professor of the
Department of Internal Medicine with
a course in cardiology and functional
diagnostics named after academician
V.S. Moiseev

M.A. Markova

Job title

Signature

Surname I.O.

HEAD OF THE BUP:

Head of the Department of Internal
Medicine with a Course in Cardiology
and Functional Diagnostics named
after Academician V.S. Moiseyev,
Professor, Corresponding Member of
the Russian Academy of Sciences

J.D. Kobalava

Job title

Surname I.O.

HEAD OF THE MP HE:

in the direction of "Dentistry"

S.N. Razumova

Job title

Signature

Surname I.O.